PRELIMINARY INTERIM MEASURE COMPLETION REPORT

REMOVAL OF PCB-CONTAINING CAULK IN CONCRETE PAVEMENTS

Boeing Plant 2 Seattle/Tukwila, Washington

Prepared for:

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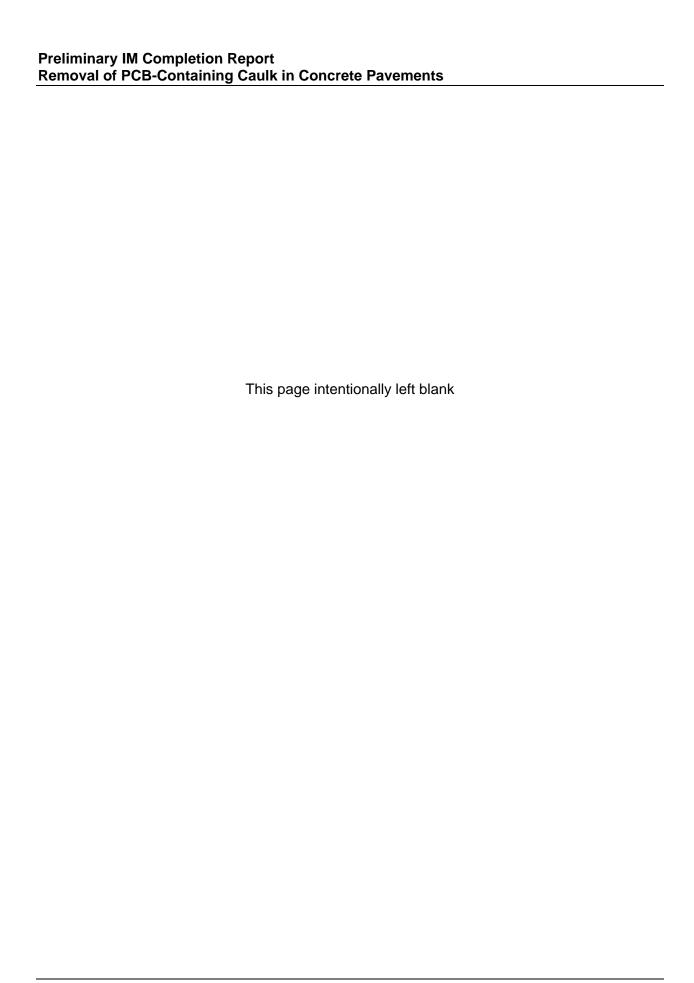
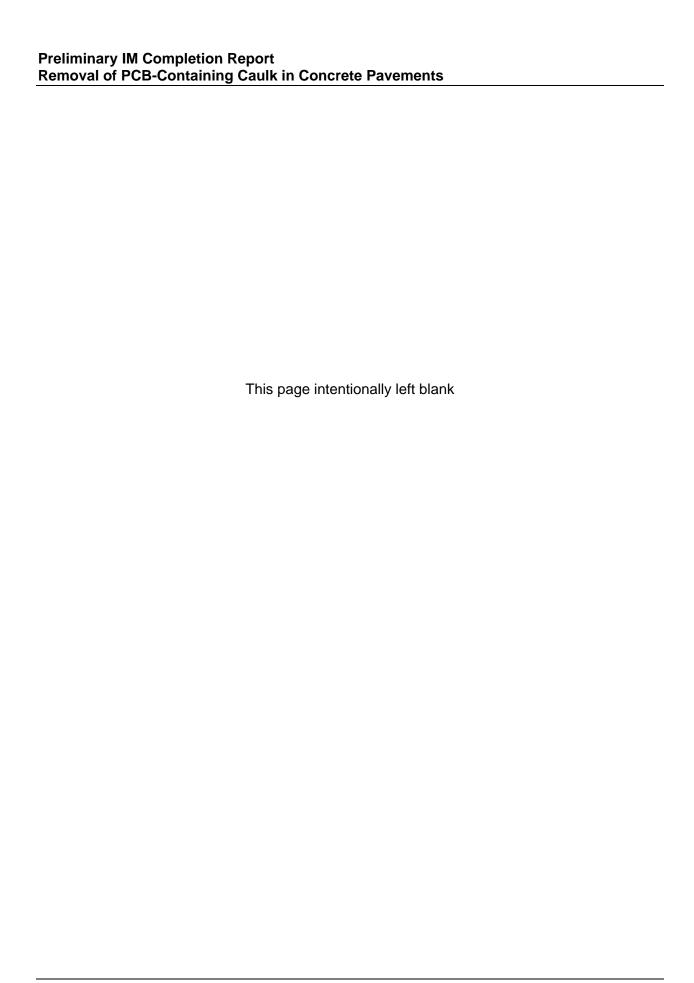


TABLE OF CONTENTS

1.0	1					
	1.1	1 Background				
	1.2	Properties of Plant 2 Pavements and Slabs				
	1.3	Recer	Recent Actions			
		1.3.1	Caulk Investigations	3		
		1.3.2	Past Construction and Removal Activities	6		
		1.3.3	Stormwater Sampling	6		
		1.3.4	2008 Stormwater System Sampling and Cleaning	7		
		1.3.5	2009 Catch Basin Insert Sampling and Cleaning	8		
2.0	PUR	RPOSE	OF INTERIM MEASURE	9		
3.0 FALL 2009 CAULK REMOVAL, 2-60S AREA						
	3.1	2-60s	Area Slab and Joint Configurations	10		
	3.2	Sawcı	utting	10		
	3.3	3.3 Caulk-Concrete Removal				
	3.4	Backfilling				
	3.5	Decontamination1				
4.0	0 DEVIATIONS					
5.0	SUMMARY					
	5.1	l 2009 Caulk Removal		14		
	5.2	2010	Caulk Removal	14		
	5.3	5.3 IM Completion Report				
6.0	SCHEDULE					
7.0	DEEEDENCES					

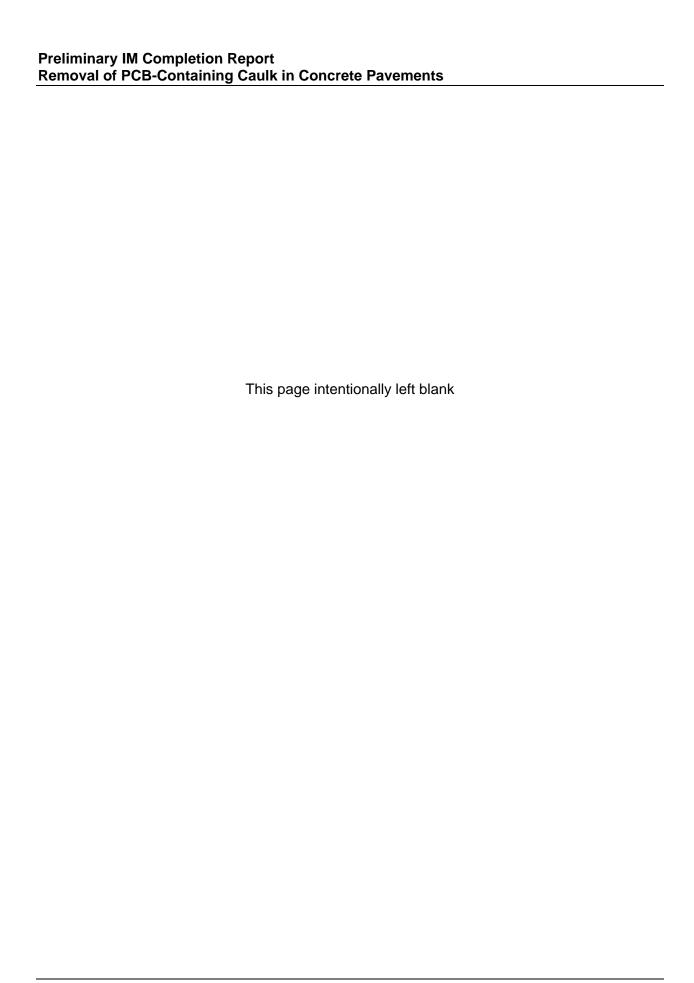


LIST OF FIGURES

Figure 1	Vicinity Map
Figure 2	Plant 2 Pavements and Slabs
Figure 3	2-10 Area: All Caulk Types, Sample Locations and Results
Figure 4	2-40s Area: All Caulk Types, Sample Locations and Results
Figure 5	2-60s Area: All Caulk Types, Sample Locations and Results
Figure 6	2-10 Area Caulk Removal Plan, Spring/Summer 2010
Figure 7	2-60s Area Caulk Removed During Fall 2009

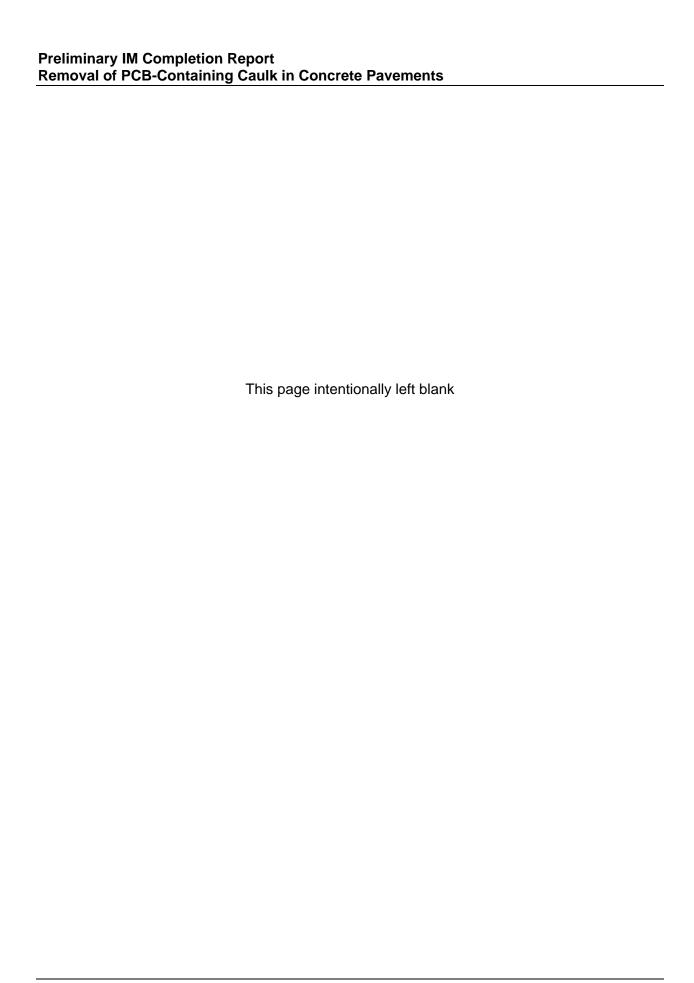
LIST OF APPENDICES (ELECTRONIC COPIES ONLY, ON CD ATTACHED TO REPORT)

Appendix A Removal Photographs
Appendix B Daily Quality Assurance Field Sheets
Appendix C Field Notes



List of Abbreviations/Acronyms

Abbreviation/Acronym	Definition
Boeing	The Boeing Company
EPA	United States Environmental Protection Agency
Golder	Golder Associates, Inc.
IM	Interim Measure
IM Work Plan	Interim Measure Work Plan: Characterization of Caulk in Concrete Pavements at Boeing Plant 2
NPDES	National Pollutant Discharge Elimination System
PCB	polychlorinated biphenyl
Ppm	parts per million
OA	Other Area
Order	Order on Consent
RCRA	Resource Conservation and Recovery Act
RL	reporting limit
SOPs	Standard Operating Procedures
SWMU	Solid Waste Management Unit



1.0 INTRODUCTION

The Boeing Company (Boeing) completed the removal of caulk materials containing > 25 ppm PCBs in the concrete pavements in the 2-60s Area at the Plant 2 facility in Seattle/Tukwila, Washington during October and November 2009. The caulk removal was conducted in accordance with the methodology and schedule presented in the Phase 3 Interim Measure Work Plan (Phase 3 IM Work Plan) (Golder 2009b) that was submitted to EPA in June 2009, approved with modifications by EPA in September 2009, and resubmitted in September 2009 to address the required modifications. As indicated in the Phase 3 IM Work Plan, the removal of caulk containing > 25 ppm PCBs in the 2-10 Area will be conducted during the Spring/Summer of 2010, and a final IM Completion Report will be submitted at that time.

The removal of caulk containing > 25 ppm PCBs is the culmination of (and was performed in accordance with) the following suite of work plans:

- Interim Measure Work Plan (IM Work Plan), Characterization of Caulk in Concrete Pavements at Boeing Plant 2, dated August 2007 (Golder 2007a) and approved by EPA in a letter dated October 1, 2007
- Phase 1 Report and Work Plan, Characterization of Caulk in Concrete Pavements at Boeing Plant 2, dated May 2008 (Golder 2008a) and approved by EPA in a letter dated June 16, 2008
- Draft Phase 2 Report and Work Plan, Characterization of Caulk in Concrete Pavements at Boeing Plant, dated October 2008 (Golder 2008e) and approved by EPA in a letter dated February 13, 2009
- Phase 3 Interim Measure Work Plan, Removal of PCB-Containing Caulk in Concrete Pavements, Boeing Plant 2, originally submitted in June 2009, approved with modifications by EPA in a letter dated September 8, 2009, and resubmitted in September 2009 (Golder 2009b)

This work was done in accordance with Administrative Order on Consent (Order) No. 1092-01-22-3008(h) between Boeing and the Environmental Protection Agency (EPA) Region X. The Order is issued pursuant to Section 3008(h) of the Solid Waste Disposal Act, also referred to as the Resource Conservation and Recovery Act (RCRA). The initial IM Work Plan was submitted pursuant to EPA's February 15, 2007 and April 11, 2007 letters, the latter being sent following Boeing's February 26, 2007 letter, and numerous discussions on this subject. In short, EPA required Boeing to identify caulk products containing polychlorinated biphenyls (PCBs) in concrete pavements at the facility with concentrations of PCBs above 1 part per million (ppm). The April 2007 letter specified inclusion of a discussion on the future removal of all caulk with PCB concentrations in excess of 50 ppm and for the stabilization or removal of all caulk with PCB concentrations between 25 and 50 ppm.

In a letter to Boeing dated February 13, 2009, EPA approved the Draft Phase 2 Report and Work Plan. In that letter, EPA strongly encouraged Boeing to evaluate the removal of caulk containing PCB concentrations between 25 and 50 ppm, as opposed to the stabilization and

long-term monitoring and maintenance of those caulks. Boeing's subsequent evaluation of the removal versus stabilization options led to the conclusion that removal, rather than stabilization, of the caulk containing between 25 and 50 ppm PCBs could be performed effectively at a reasonable cost. As such, Boeing removed all caulk containing > 25 ppm PCBs from the 2-60s Area as documented in this preliminary report, and will perform the removal of such caulk from the 2-10 Area during Spring/Summer 2010.

This report presents a summary of the caulk removal performed during 2009, and provides for context and reference to pertinent data some background information on the full range of related stormwater source control work performed recently at Plant 2.

1.1 **Background**

Plant 2 is located on 107 acres between the Duwamish Waterway and East Marginal Way South in Seattle and Tukwila, Washington (Figure 1). With the exception of small landscaped areas, the ground surface at Plant 2 is topographically flat and either paved or covered by buildings. Stormwater falling upon pavement or buildings is discharged to the Duwamish Waterway under a National Pollutant Discharge Elimination System (NPDES) and State Waste Discharge General Permit for Stormwater Discharges Associated with Industrial Activities, in compliance with the State of Washington Water Pollution Control Law (Chapter 90.48 RCW) and the Federal Water Pollution Control Act (The Clean Water Act) (Title 33 United States Code, Section 1251 et seq.).

1.2 **Description of Plant 2 Pavements and Slabs**

Plant 2 was divided into five geographical areas for the purpose of the IM Work Plan (Figure 2). The five geographical areas include the North Area, the 2-10 Area, the 2-40s Area, the 2-60s/2-66 Areas (2-60s Area), and the South Yard. Figure 2 includes estimates of the pavement areas and joint lengths for each of these areas. The surfacing in the North Area comprises an area of approximately 13 acres, and consists primarily of recent asphalt with little or no caulk material. The surfacing in the 2-10, 2-40s, and 2-60s Areas comprises an area of approximately 29 acres. and consists primarily of older, jointed and/or cracked concrete with caulk material in the joints and/or cracks. The surfacing in the South Yard comprises an area of approximately ten acres, and consists primarily of recent asphalt with little or no caulk material. Within these areas a few locations warrant special mention. A small space near the SCL Transformer pad (OA-11) is concrete containing little caulk that will be excavated and replaced with asphalt when that space is remediated; that area was, therefore, not included in the work plan. Some small paved spaces east of the 20-series buildings are comprised of concrete and joint materials constructed in the 1990s; given their recent construction these small spaces were not included in the work plan. Similarly, on the east margin of the 2-10 Area recent refurbishment of the jet fuel tank space included removal and replacement of its original caulk; as such, that small space was also not included in this characterization work (See Figure 2).

As is described further below, the concrete pavements in the 2-10 and 2-40s Areas and the concrete pavements and slabs in the 2-60s Area were the focus of this IM Work Plan due to the presence, age and nature of the caulk materials in those areas.

1.3 **Recent Actions**

1.3.1 Caulk Investigations

2005/2006 2-60s Area Investigation

Between October 2005 and April 2006, following identification of PCBs in catch basin solids samples collected in stormlines X and Y, Boeing investigated caulking materials that had been applied to joints in paved roadways and concrete slabs in the drainage area served by Lines X and Y (2-60s Area). The investigation was conducted to provide an indication of whether joint caulk materials may have been a possible source of PCBs. Inspection of these areas revealed multiple applications of a variety of caulk materials used to seal cracks and seams in the roadways and building slabs. Sample locations were selected based on their variability of joint materials and the relative amount of joint material present. Forty-six caulk samples, representative of the numerous types of caulk material (based on appearance) in the area, were collected during that investigation. The visually identifiable physical characteristics of the joint materials were recorded for each sample location, and the samples were sent to an analytical laboratory for testing. Results for PCBs ranged from non-detect (at a reporting limit [RL] of 0.79 ppm) to 40,500 ppm. A summary of the results of the 2005/2006 investigation was presented as Table 1 in Attachment A of the IM Work Plan (Golder 2007a). The PCB concentrations in caulk used in the 2-60s Area concrete pavements were consistently and significantly lower than concentrations in the caulk used in the 2-60 Area building concrete slabs that were left in place temporarily following demolition of their overlying building structures. Additional evaluation of the 2005/2006 data were performed for characterization purposes in support of the Phase 1 investigation in 2007 (see Phase 1 Report and Work Plan, Characterization of Caulk in Concrete Pavements at Plant 2 [Phase 1 Report], dated May 2008 (Golder 2008a)).

Phase 1 Investigation

During 2007, a systematic approach was implemented to develop a baseline characterization of the caulk types in the concrete slabs and pavements in the 2-10, 2-40s, and 2-60s Areas:

The 2005/2006 caulk data from the 2-60s Area were first reviewed and evaluated to describe and determine caulk physical appearances that could be used to identify those same caulks that may be present elsewhere in the study area. Samples were collected during 2007 at the same locations as most of the 2005/2006 samples to enable closer visual examination of the caulks and standardization of caulk descriptions. Additionally, several duplicate samples were submitted for laboratory analyses in cases where the 2005/2006 analytical data indicated PCB reporting limits (RLs) above 1 ppm that would compromise the use of those earlier results.

- Caulk sampling and analytical testing were conducted on sixty seven caulk samples
 from the 2-10 and 2-40s Areas, and four caulk samples from the 2-60s Area. Data from
 the 2005/2006 and 2007 studies were then reviewed and evaluated with the objective of
 establishing the visual properties for each distinct caulk type that could in turn be used to
 systematically identify all caulks and their respective concentrations of PCBs.
- Caulk types were initially evaluated and characterized on the basis of visual properties first separately by area, and then collectively for all three areas.

Careful review of existing data and close examination of caulk material samples resulted in the identification of fifteen types of caulk materials in the pavements of the 2-10, 2-40s, and 2-60s Areas based upon visually identifiable physical properties (appearance and texture). Several of the caulk types were observed in all three areas, but most caulk types were not observed in all three areas. The details and results of the Phase 1 investigation were presented in the EPA-approved Phase 1 Report (Golder 2008a).

Phase 2 Investigation

Detailed mapping of the caulk materials in the concrete joints was performed during 2008 in the 2-10, 2-40s, and 2-60s Areas based upon the visual properties established by the Phase 1 baseline characterization. The mapping was required to identify the specific locations of caulk materials containing > 1 ppm PCBs; to enable an evaluation of recent catch basin and stormwater sampling results versus the areas containing caulk with elevated concentrations of PCBs such that stormwater source control issues could be better understood; and to enable recommendations regarding caulk removal (> 50 ppm PCBs) or stabilization (> 25 ppm and ≤ 50 ppm PCBs) actions. Two additional variations of a previously identified caulk material were discovered during the mapping process; those additional types were mapped, sampled, tested for PCBs, and characterized per the baseline characterization process.

A total of 107 additional caulk samples were collected in the 2-10, 2-40s, and 2-60s Areas during the Phase 2 investigation, and resulted in the identification of a total of 17 types of caulk materials in the pavements of the 2-10, 2-40s, and 2-60s Areas based upon visually identifiable physical properties (appearance and texture). Additionally, subsets of three of the seventeen caulk types were developed based upon ranges of PCB concentrations.

The EPA-approved Draft Phase 2 Report and Work Plan (Golder 2008e) reported the results of the caulk investigations of the concrete pavements and slabs in the 2-10, 2-40s, and 2-60s Areas at Plant 2, and included the analytical results for 224 samples of caulk materials that were collected and analyzed for PCBs during the 2005/2006, Phase 1, and Phase 2 investigations. Detailed mapping of the 17 caulk types was performed. The maps were included in the Phase 2 Report and Work Plan and are attached herein as Figures 3, 4, and 5.

PCB concentration ranges were designated for each of the 17 caulk types identified. Three of the caulks, Types 1A, 1C, and 4A, were divided into subsets based on varying ranges of PCBs detected in those materials. Including the subset caulks, 21 caulk categories were identified

based upon PCB concentration ranges and physical characteristics, as presented in the Draft Phase 2 Report and Work Plan (Golder 2008e). The caulk types and/or subsets designated as containing PCB concentrations above 25 ppm included the following:

Type 1A2: > 50 ppm, 1220 linear feet

Type 1A3: > 25 ppm & ≤ 50 ppm, 797 linear feet

 Type 1C2: > 25 ppm & ≤ 50 ppm, 723 linear feet

Type 4A2: > 25 ppm & ≤ 50 ppm, 1445 linear feet

In the Draft Phase 2 Report and Work Plan Golder (2008e), Boeing proposed the removal of the above caulk materials containing > 50 ppm PCBs and the stabilization of the caulk materials containing > 25 ppm & ≤ 50 ppm PCBs, in accordance with EPA's April 2007 letter.

Phase 3 IM Work Plan

In accordance with EPA's February 2009 letter, Boeing proposed the removal of all caulk materials containing > 25 ppm PCBs, as opposed to removing only those caulks containing > 50 ppm PCBs and stabilizing those caulks containing > 25 ppm and ≤ 50 ppm PCBs per EPA's April 2007 letter. Caulk materials containing > 25 ppm PCBs were located in the 2-10 and 2-60s Areas, whereas no caulks containing > 25 ppm PCBs were located in the 2-40s Area. The methodology, schedule, and standard operating procedures for the removal of the caulk containing > 25 ppm PCBs was proposed by Boeing and approved with modifications by EPA in September 2009.

Due to seasonal weather constraints and the timing of EPA approval, the caulk removal was scheduled in two phases as follows:

- Fall 2009 Removal of caulk containing > 25 ppm PCBs from 2-60s Area concrete (Figure 7)
- Spring/Summer 2010 Removal of caulk containing > 25 ppm PCBs from 2-10 Area (Figure 6)

The plan for the Fall 2009 removal of approximately 2,660 linear feet of caulk from the 2-60s Area included the following quantities and caulk types:

- 1,145 linear feet of Type 1A caulk
- 1,455 linear feet of Type 4A caulk
- 60 linear feet of Type 1C caulk

The plan for the Spring/Summer 2010 removal of 1,545 linear feet of caulk from the 2-10 Area included the following quantities and caulk types:

- 875 linear feet of Type 1A caulk
- 670 linear feet of Type 1C caulk

1.3.2 Past Construction and Removal Activities

In March 2006, installation of a temporary stormwater collection and treatment system was completed to replace the drainage capacity of storm lines X and Y. Sampling and analytical testing previously indicated that catch basin solids in lines X and Y contained elevated concentrations of PCBs and metals (Floyd|Snider 2005). This construction activity included the temporary sealing at the surface of all the catch basins and manholes on the X and Y lines to remove those lines from service, and the installation of new drains, lines, asphalt swales and a modern treatment vault which collects solids and stormwater and conveys stormwater into storm line Z. Line Z is immediately south of the X and Y lines. In October 2006 following a video survey, the catch basins and manholes on the X and Y lines in the area of the 2-66 slab were backfilled with controlled density fill (CDF) and the accessible outfalls for those lines were sealed at the waterway. In May 2007, Boeing completed the removal of the X and Y lines from the 2-60s Area (east of the 2-66 slab), as documented in the EPA-approved Interim Measure Completion Report, Removal of Stormwater Lines X & Y (OA 23.1 and OA 23.2) in 2-60s Area at Boeing Plant 2, dated May 2008 (Golder 2008b). Additionally, Building 2-64 was demolished in May 2007 and its foundations and immediately-adjacent pavements were removed and replaced with asphalt surfacing.

As a result of the removal of those portions of the X and Y storm lines and the demolition of Building 2-64, caulks at the locations of five of the caulk samples collected in the 2-60s Area during 2005/2006 were removed. These five caulk samples had PCB concentrations ranging from non-detect (at an RL of 0.8 ppm) to 740 ppm. Additionally, all caulk represented by three samples containing PCB concentrations ranging from 29,300 ppm to 40,500 ppm were previously removed by Boeing from a single equipment foundation on the Building 2-65 slab (see Figure 5).

1.3.3 Stormwater Sampling

Given the possible association between the caulk at Plant 2 as a potential source of PCBs and the PCB concentrations detected in the stormwater system solids, it is appropriate to consider information regarding stormwater source control sampling. Accordingly, and to further investigate concentrations of PCBs and metals detected in catch basin solids during the 2005 survey of the Plant 2 stormwater system, Boeing and EPA initiated an annual stormwater source control sampling program to evaluate the potential for active stormwater lines at Plant 2 to convey hazardous substances to the Duwamish Waterway via stormwater discharges. To address EPA's requirements for this work identified in a May 26, 2006 letter, the Stormwater Source Control Work Plan for Boeing Plant 2 (Golder, 2006) was drafted and then approved in October, 2006. That work plan established a source control sampling program consisting of one-time or annual sampling and analysis of suspended solids and/or water along 12 of the 24 active stormwater lines at Plant 2 during the rainy season (approximately October to March). Source control sampling results are compared to action levels established in the work plan, and

action level exceedences trigger further actions such as additional monitoring, source identification and/or source elimination work.

The first round ("round 1") of source control sampling was conducted between October 2006 and April 2007, and the round 1 sampling report (Golder, 2007b) was approved by EPA in October 2007. Round 2 sampling was conducted between October 2007 and May 2008 in accordance with the Revised Stormwater Source Control Work Plan for Boeing Plant 2 (Golder, 2007c). The round 2 sampling report was submitted to EPA in May 2008, conditionally approved with comments by EPA in August, 2008, and resubmitted for final approval in September, 2008 (Golder 2008d). A draft Round 3 sampling report (Golder 2009a) was submitted to EPA in July 2009. Annual source control sampling will continue until baseline conditions have been established, and appropriate source control actions have been identified, completed, and verified.

1.3.4 2008 Stormwater System Sampling and Cleaning

Boeing submitted to EPA the 2008 Stormwater Source Control Interim Measure Work Plan for Boeing Plant 2 (Golder 2008c) in May 2008. The work plan was approved by EPA in a letter received by Boeing on July 2, 2008. In accordance with the work plan, Boeing implemented an interim measure on five storm lines (A, B, I, J, and Z) in the Plant 2 stormwater system during the summer and fall of 2008 to address action level exceedences identified during the first two rounds of stormwater source control sampling. The 2008 IM consisted of:

- Visually inspecting all accessible catch basins and collecting 494 solids samples from 364 locations to assess potential entry points for PCBs and metals
- Cleaning 417 catch basins and structures based on the analytical results and the visual inspections
- Cleaning more than 5 miles of storm lines and removing approximately 117 cubic yards of legacy solids that may have been ongoing sources of PCBs and metals detected during source control sampling
- Conducting a video survey in more than 3 miles of storm lines to assess the integrity of the pipes and evaluate the cleaning effectiveness
- Installing 287 geotextile filter fabric inserts at all accessible catch basins and inlets to reduce the volume of solids entering the storm system

The IM removed legacy residual solids material from the storm system that may have been a source of PCBs and metals detected during the first two rounds of stormwater source control sampling, and implemented controls to reduce future solids accumulation in the system. All details and results of the IM were presented in the Interim Measure Completion Report, 2008 Stormwater Source Control Catch Basin Sampling and Stormline Cleaning for Boeing Plant 2 (Golder 2009c), dated October 2009 and approved by EPA in a letter dated November 18, 2009.

1.3.5 2009 Catch Basin Insert Sampling and Cleaning

Boeing collected solids samples from geotextile surface inserts in catch basins on storm lines B, I, J, and Z during October and November 2009 in an ongoing effort to identify sources of PCBs that have been detected in the stormwater system at Plant 2. Boeing also cleaned or replaced the geotextile inserts in the catch basins, and assessed the extent of accumulation in the underlying catch basin bottoms. The work was performed in accordance with the Technical Memorandum, Fall 2009 Source Control Actions (Golder 2009d), submitted to EPA on October 15, 2009. In December 2009, cleaning was completed in the containment area around the Jet-A fuel tanks near the east end of storm line B where elevated PCB concentrations have previously been detected in the stormwater system.

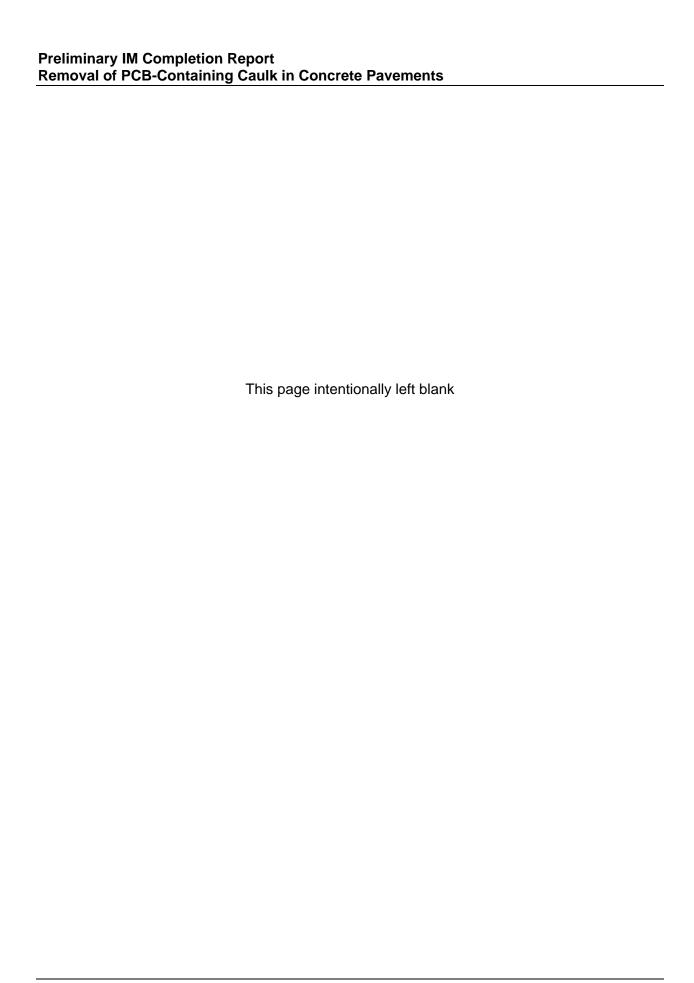
Following the receipt of all analytical results for the catch basin insert sampling, and assessment of the data, a Technical Completion Memorandum summarizing the work and the results will be prepared and submitted to EPA.

2.0 PURPOSE OF INTERIM MEASURE

The purpose of this IM was to first determine and map the concrete joint locations of caulk materials containing PCB concentrations above 1 ppm, and to then remove those caulk materials containing > 25 ppm PCBs. The removal of the identified materials containing > 25 ppm PCBs is being performed as a function of source control to preclude the migration of such materials to the Duwamish Waterway.

A phased approach has been used to identify and then remove caulk materials containing PCBs in excess of 25 ppm:

- Phase 1 provided a baseline characterization of caulk materials and included correlation
 of caulk physical properties (i.e., appearance and texture) to PCB concentrations in the
 caulk. The characterization was presented in the Phase 1 Report (Golder 2008a), which
 established the visual properties and sampling approach to be used during the Phase 2
 investigation to categorize and map all caulks relative to their ranges of PCB
 concentrations.
- Phase 2 included: 1) sampling and testing of newly-observed caulk types that were not
 previously identified, 2) additional sampling and testing of two previously identified caulk
 types that exhibited wide ranges of PCB concentrations, 3) detailed mapping of all of the
 caulks characterized during Phase 1 and Phase 2 of this IM Work Plan, and 4)
 proposing actions for caulk materials containing PCB concentrations > 25 ppm.
- Phase 3 included: 1) methodology for the removal of caulk materials containing > 25 ppm PCBs, and 2) a schedule for the removal of the subject caulk materials.
- Removal Phase includes: 1) Fall 2009 removal of 2-60s Area caulk materials identified
 as containing > 25 ppm PCBs, removal of two inches of soil from beneath the joint that
 contained the subject caulk, and backfilling of the caulk removal slot with controlled
 density fill (CDF) or concrete, and 2) Spring/Summer 2010 removal of 2-10 Area caulk
 materials identified as containing > 25 ppm PCBs, removal of two inches of concrete
 from beneath the joint that contained the subject caulk, and replacement of the caulk
 with new joint sealant material.



3.0 FALL 2009 CAULK REMOVAL, 2-60s AREA

During October and November 2009, approximately 2,660 linear feet of caulk materials containing > 25 ppm PCBs were removed from the concrete slabs in the 2-60s Area of Plant 2, and two inches of soil under the caulked joints were removed in accordance with the Phase 3 IM Work Plan (Golder 2009b). The removal areas are shown on Figure 7. Controls were implemented during the removal to contain and prevent the release of PCB contaminants to the environment, as prescribed by the methodology and Standard Operating Procedures (SOPs) included in the Phase 3 IM Work Plan. Quality Assurance Field Sheets were completed on a daily basis, and are appended in electronic format, along with photographs and field notes in Appendices B, A, and C respectively on the compact disk (CD) attached to this report.

3.1 2-60s Area Slab and Joint Configurations

The 2-60s Area concrete slabs formed the indoor floors of 1950s-era buildings that were primarily used for manufacturing and storage. The configuration between adjacent approximately 6-inch thick concrete floor panels in the 2-60s Area consists of a caulked joint that generally ranges in width from 1/8 to 1/2 inch, and fully penetrates the thickness of the concrete slabs (~6 inches), as shown in Sketch 1 below. A similar configuration exists in the joint between floor slabs and the much thicker perimeter curbs, footings, stem walls, or grade beams, as shown in Sketch 2 below

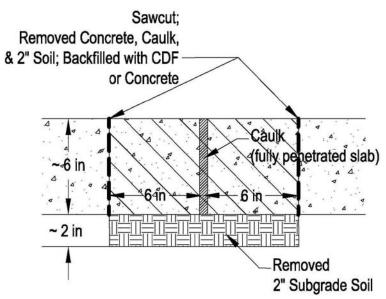
3.2 Sawcutting

As a result of the configuration of the caulked joints in the 2-60s Area, caulk removal required sawcutting through the full thickness of the concrete (approximately 6 inches), on both sides of the joints (approximately 6 inches from the caulk joints), per Sketch 1. In the case of perimeter joints between floor panels and curbs, footings, stem walls, or grade beams, the floor concrete was sawcut at a distance of approximately 12 inches from the perimeter structure, per Sketch 2.

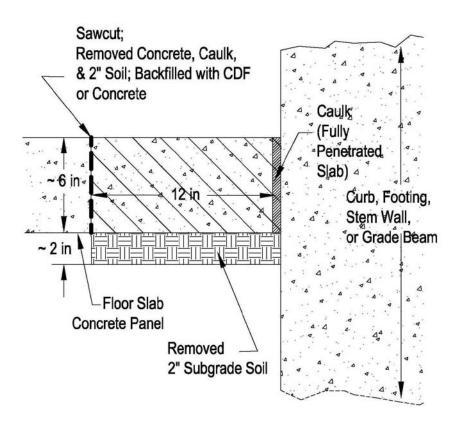
Prior to starting work, catch basins located within 25 feet of the work areas were blocked using plastic sheeting and sandbags to prevent liquid or solid wastes from entering the stormwater system.

Two sawcutting machines were used to expedite the work. The first machine made a shallow cut in the concrete, to provide a notched guide for the second machine that cut through the full depth of the concrete. Drum vacuums were used to remove the sawcutting slurry almost immediately as it was generated. Drummed slurry was appropriately managed for disposal.

Sawcutting in advance of caulk-concrete removal was typically limited to one or two days in advance of the removal, to reduce exposure of the sawcut slots to weather and runoff. A pavement breaker or jack hammer was used in conjunction with or in place of a sawcutting machine in areas where the joint, concrete, or footing configurations did not accommodate the sole use of sawcutting machines. In such cases, concrete chips were cleaned-up almost immediately, using brooms and vacuums.



Sketch 1: Section of Typical Interior Joint in Concrete Slab in 2-60s Area (not to scale)



Sketch 2: Section of Typical Perimeter (Exterior) Joint in Concrete Slab in 2-60s Area (not to scale)

3.3 Caulk-Concrete Removal

As the sawcutting progressed, the resulting 12-inch wide by 6-inch thick concrete and caulk segments were then removed using a small excavator. A few of the caulked joints contained lengths of caulk with PCB concentrations > 25 ppm and alternating lengths of caulk with PCB concentrations < 25 ppm. In such cases, both caulks were removed when the efficiency of the sawcutting and removal operations dictated such action. At perimeter joints, manual scraping and pneumatic scabbling were used as needed to remove adhered caulk from the perimeter curb, footing, stem wall or grade beam. Two inches of soil beneath the bottom of the caulk were then removed manually using shovels, and caulk or concrete chips adjacent to the removal slot were cleaned-up using brooms. The removed caulk, concrete and soil were placed in roll-off containers and appropriately managed for disposal. A total of approximately 2,660 linear feet of caulk containing > 25 ppm PCBs were removed from the 2-60s Area concrete slabs.

At the 2-63 slab, following a period of rainy weather, saturated subgrade soil was discovered when the caulk-concrete was removed. Water had likely seeped to the subgrade through cracked concrete slabs or nearby utility pits. The wet soil in the removal slot was overexcavated and replaced with clean, granular fill prior to backfilling the slot with CDF.

The concrete adjacent to each removal slot was washed with water using a low pressure sprayer, and manually scrubbed using brushes. The spray water was aimed away from the removal slot during washing to prevent the entry of the wastewater into the slot. The wastewater was collected using a drum vacuum, and the drummed liquid was appropriately managed for disposal.

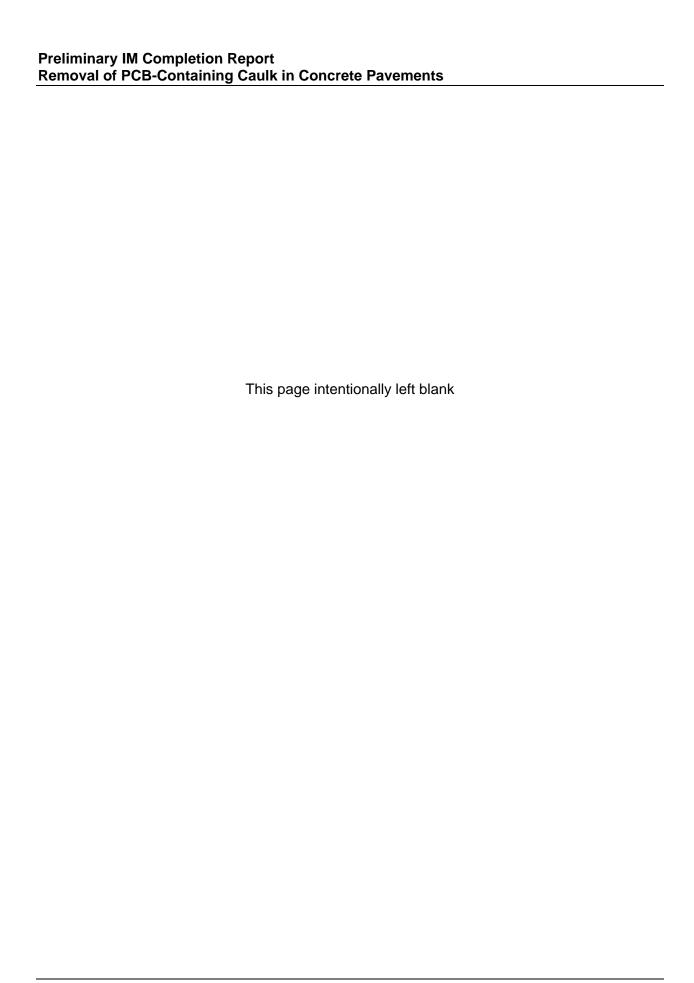
Plastic sheeting and sandbags were used as needed to protect the removal slots from adverse weather until such time that the slots were backfilled with CDF or concrete.

3.4 Backfilling

The caulk-concrete removal slots were backfilled with CDF or concrete. The slots were typically backfilled within one or two days of the caulk-concrete removal, and many were backfilled the same day as the caulk-concrete removal. Approximately 105 cubic yards of CDF and concrete were used to backfill the caulk-concrete removal slots.

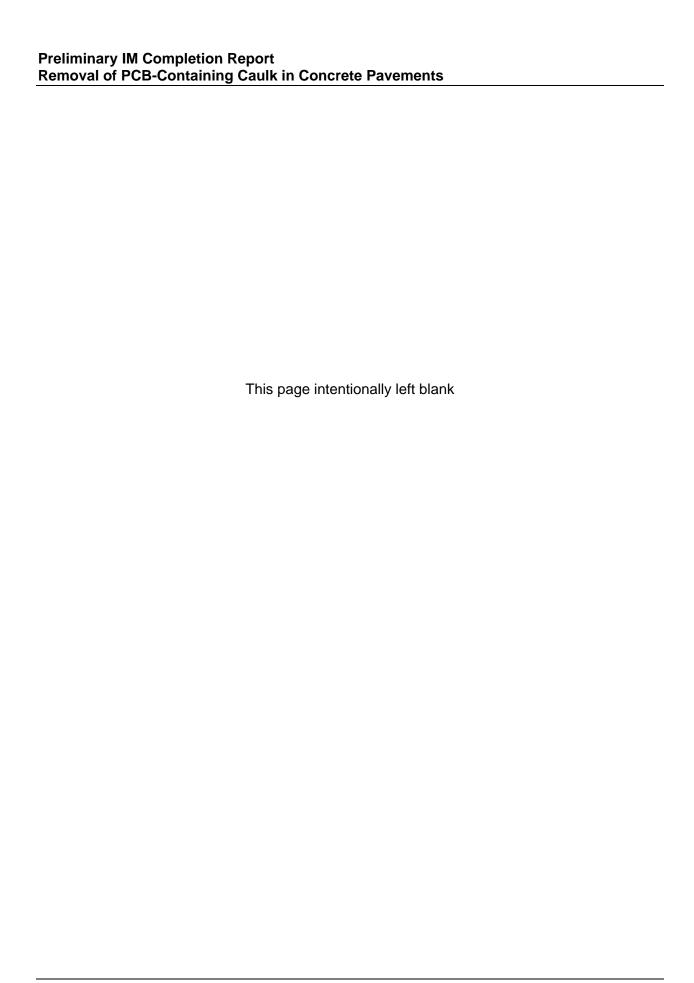
3.5 Decontamination

All non-disposable equipment and tools were decontaminated before they were allowed to be removed from the jobsite. Decontamination water was drummed and appropriately managed for disposal.



4.0 **DEVIATIONS**

No deviations from the Phase 3 IM Work Plan occurred during the removal of caulk-concrete from the 2-60s Area slabs. Concrete rather than CDF was used to backfill many caulk removal slots, primarily at the 2-66 and 2-65 slabs where salvage equipment and vehicles are being temporarily stored. The concrete was used to provide for a quicker set time and higher strength than could have been achieved using CDF.



5.0 SUMMARY

5.1 2009 Caulk Removal

Approximately 2,660 linear feet of caulk containing > 25 ppm PCBs were removed from the concrete in the 2-60s Area of Plant 2 during October and November 2009 as a function of source control to preclude the migration of the materials to the Duwamish Waterway. Two inches of soil beneath the bottom of the caulked joints were also removed. The removal slots in the concrete slabs were backfilled with CDF or concrete to seal the slots against the entry of surface runoff.

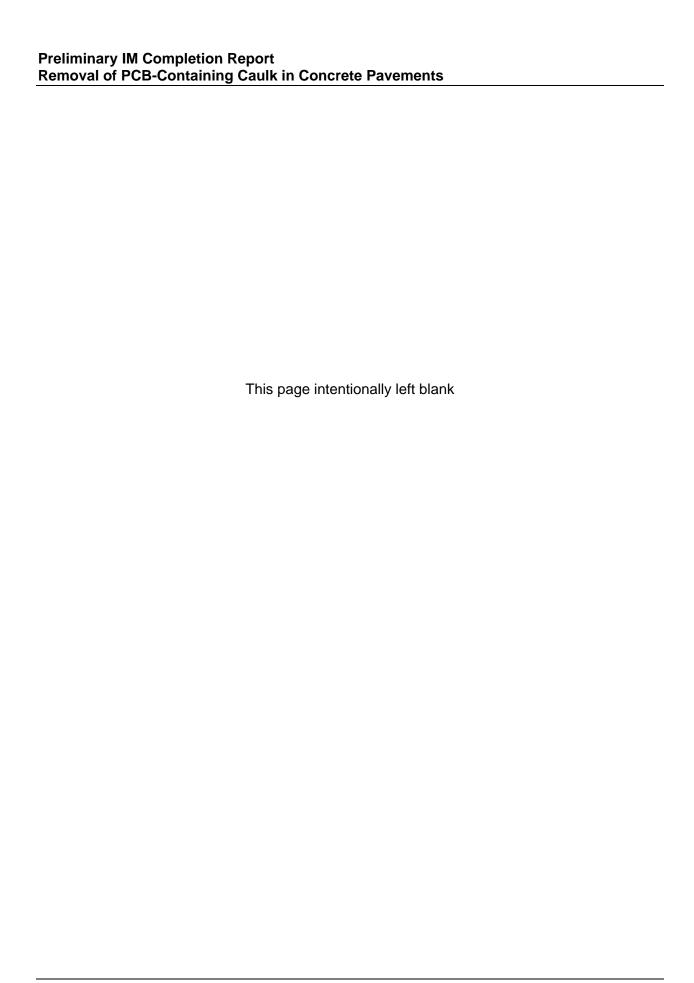
5.2 2010 Caulk Removal

The removal of approximately 1,545 linear feet of caulk containing > 25 ppm PCBs in the 2-10 Area is scheduled for Spring/Summer 2010. The removal of the caulk in the 2-10 Area will require the subsequent installation of a replacement caulking compound in the affected concrete joints, and drier and warmer weather is required for that work.

5.3 IM Completion Report

An IM Completion report will be submitted to EPA within 30 days of completion of the 2010 caulk/concrete removal and replacement. The contents of the completion report will include:

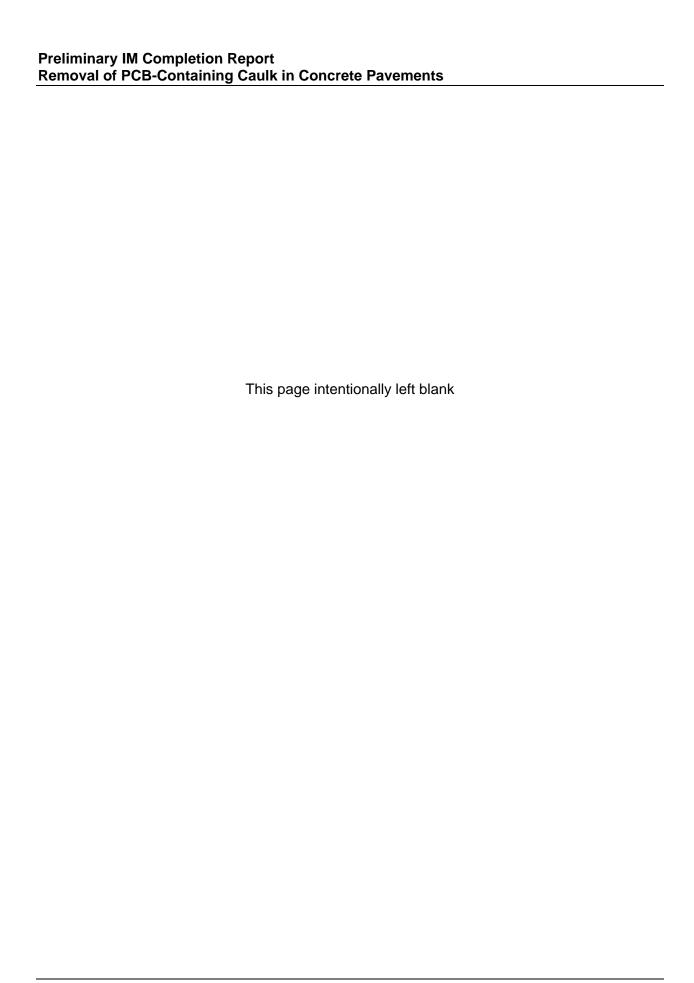
- Introduction
- Purpose of IM
- Description of Work Completed
- Deviations
- Summary
- References
- Attachments
 - Figures
 - Field Notes (Daily QA Field Sheets)
 - o Photos



6.0 SCHEDULE

The removal of caulk containing > 25 ppm PCBs in the 2-10 Area will be conducted during Spring/Summer 2010 when drier weather prevails. A final IM Completion Report will be submitted within 30 days of the completion of 2-10 Area caulk removal, as indicated below.

Description	Date
Submit Preliminary Completion Report	By December 14, 2009
Complete Removal Actions in the 2-10 Area.	Spring/Summer 2010
Submit IM Completion Report.	30 days after completion of 2010 removal activities.

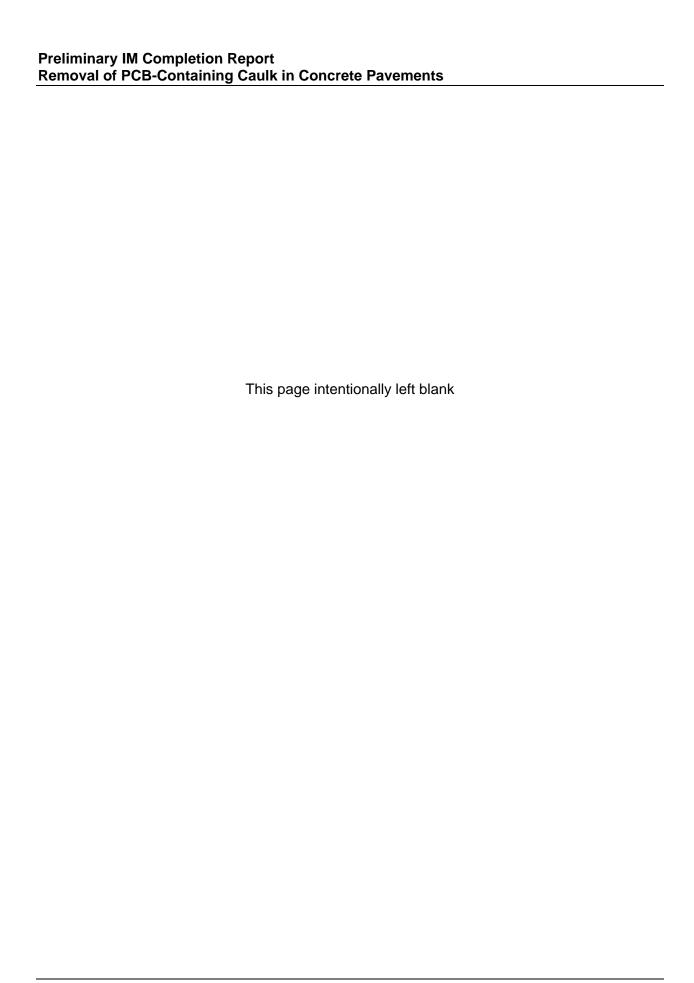


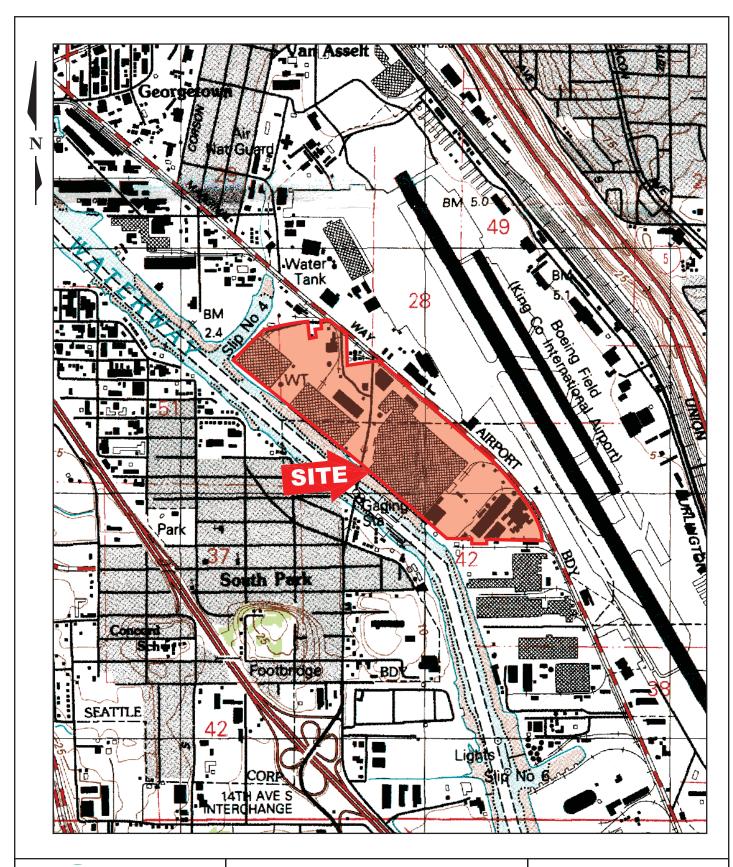
7.0 REFERENCES

- Boeing letter to EPA, Re: EPA letter dated February 15, 2007, February 26, 2007.
- EPA letter to The Boeing Company, Re: Determination of the Requirement for an Interim Measure, EPA ID No WAD 00925 6819. February 15, 2007.
- EPA letter to The Boeing Company, Re: Clarification for the Determination of the Requirement for an Interim Measure, EPA ID No WAD 00925 6819. April 11, 2007.
- EPA letter to The Boeing Company, Re: Interim Measure Work Plan, Characterization of Caulk in Concrete Pavements at Boeing Plant 2, EPA ID No WAD 00925 6819. October 1, 2007.
- EPA letter to The Boeing Company, Re: Approval of Phase 1 Report and Work Plan, Characterization of Caulk in the Concrete Pavements at Boeing Plant 2, EPA ID No WAD 00925 6819. June 16, 2008.
- EPA letter to The Boeing Company, Re: Approval of Phase 2 Report and Work Plan, EPA ID No WAD 00925 6819. February 13, 2009.
- EPA letter to The Boeing Company, Re: Section 10.3 Request regarding Phase 3 Interim Measure Work Plan, Removal and Stabilization PCB-containing Caulk in Concrete Pavements, EPA ID No WAD 00925 6819. June 8, 2009.
- EPA letter to The Boeing Company, Re: Approval with Modifications of Phase 3 Interim Measure Work Plan, Removal of PCB-Containing Caulk in Concrete Pavements, EPA ID No WAD 00925 6819. September 8, 2009.
- EPA letter to The Boeing Company, Re: Approval of the Interim Measure Completion Report, 2008 Stormwater Source Control Catch Basin Sampling and Storm Line Cleaning, EPA ID No WAD 00925 6819. November 18, 2009.
- Floyd|Snider. 2005. Memorandum: Summary of Recent Storm System Solids Survey and Source Control Sampling at Plant 2. November.
- Golder Associates Inc., 2006. Stormwater Source Control Work Plan for Boeing Plant 2. October.
- Golder Associates Inc., 2007a. Interim Measure Work Plan, Characterization of Caulk in Concrete Pavements at Boeing Plant 2. August.
- Golder Associates Inc., 2007b. Stormwater Source Control Round 1 Sampling Report. 2006-2007. October.
- Golder Associates Inc., 2007c. Revised Stormwater Source Control Work Plan for Boeing Plant 2. December.
- Golder Associates Inc., 2008a. Phase 1 Report and Work Plan, Characterization of Caulk in Concrete Pavements at Boeing Plant 2. May.

- Golder Associates Inc., 2008b. Interim Measure Completion Report, Removal of Stormwater Lines X & Y (OA 23.1 and OA 23.2) at Boeing Plant 2. May.
- Golder Associates Inc., 2008c. 2008 Stormwater Source Control Interim Measure Work Plan for Boeing Plant 2, May
- Golder Associates Inc., 2008d. Stormwater Source Control Round 2 Sampling Report, 2007-2008, September.
- Golder Associates Inc., 2008e. Draft Phase 2 Report and Work Plan, Characterization of Caulk in Concrete Pavements at Boeing Plant 2, October.
- Golder Associates Inc., 2009a. Stormwater Source Control Round 3 Sampling Report, 2008 2009, July.
- Golder Associates Inc., 2009b. Phase 3 Interim Measure Work Plan, Removal of PCB-Containing Caulk in Concrete Pavements, Boeing Plant 2, September.
- Golder Associates Inc., 2009c. Interim Measure Completion Report, 2008 Stormwater Source Control Catch Basin Sampling and Storm Line Cleaning for Boeing Plant 2, October.
- Golder Associates Inc., 2009d, Technical Memorandum, Fall 2009 Source Control Actions, October.

FIGURES

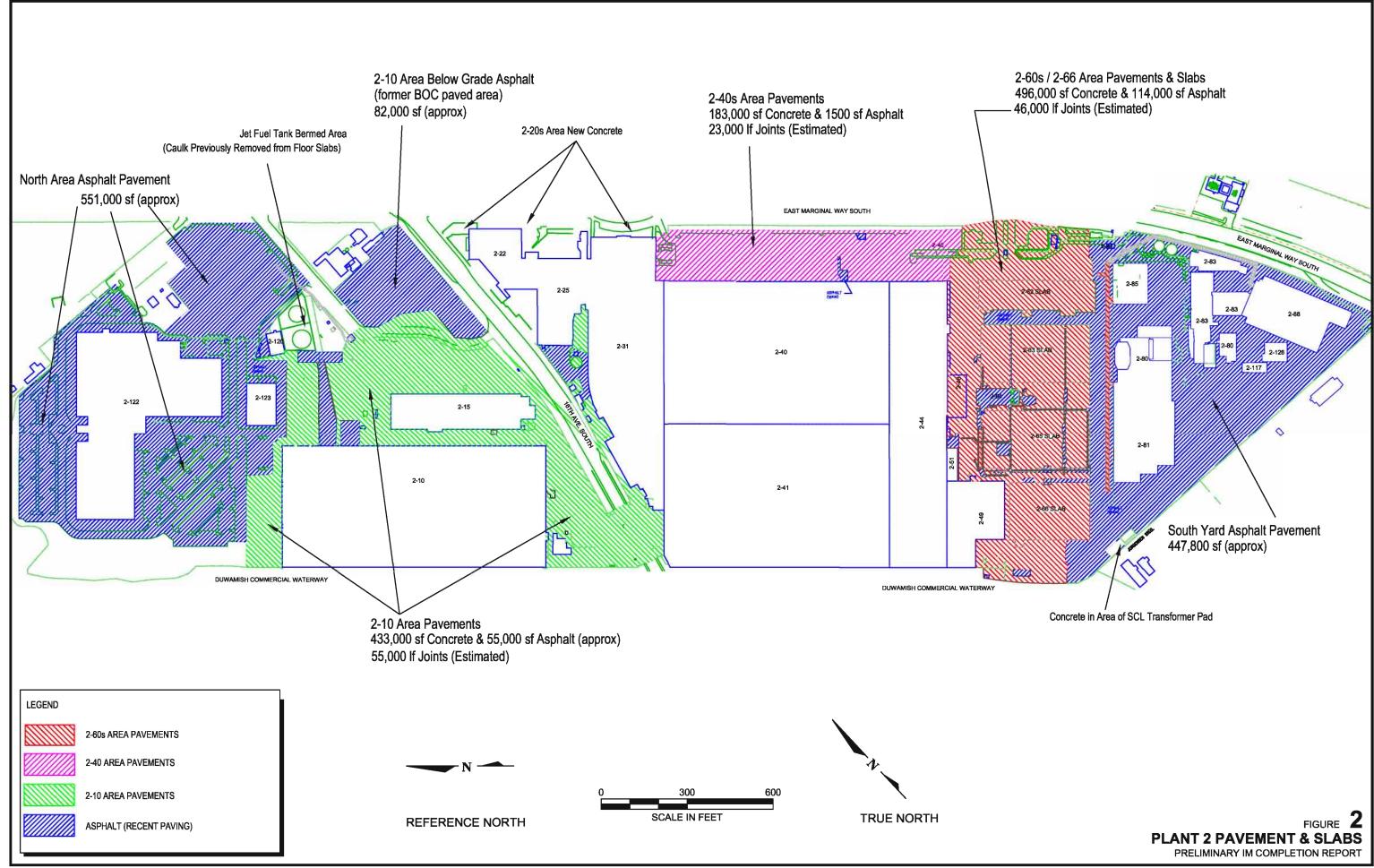


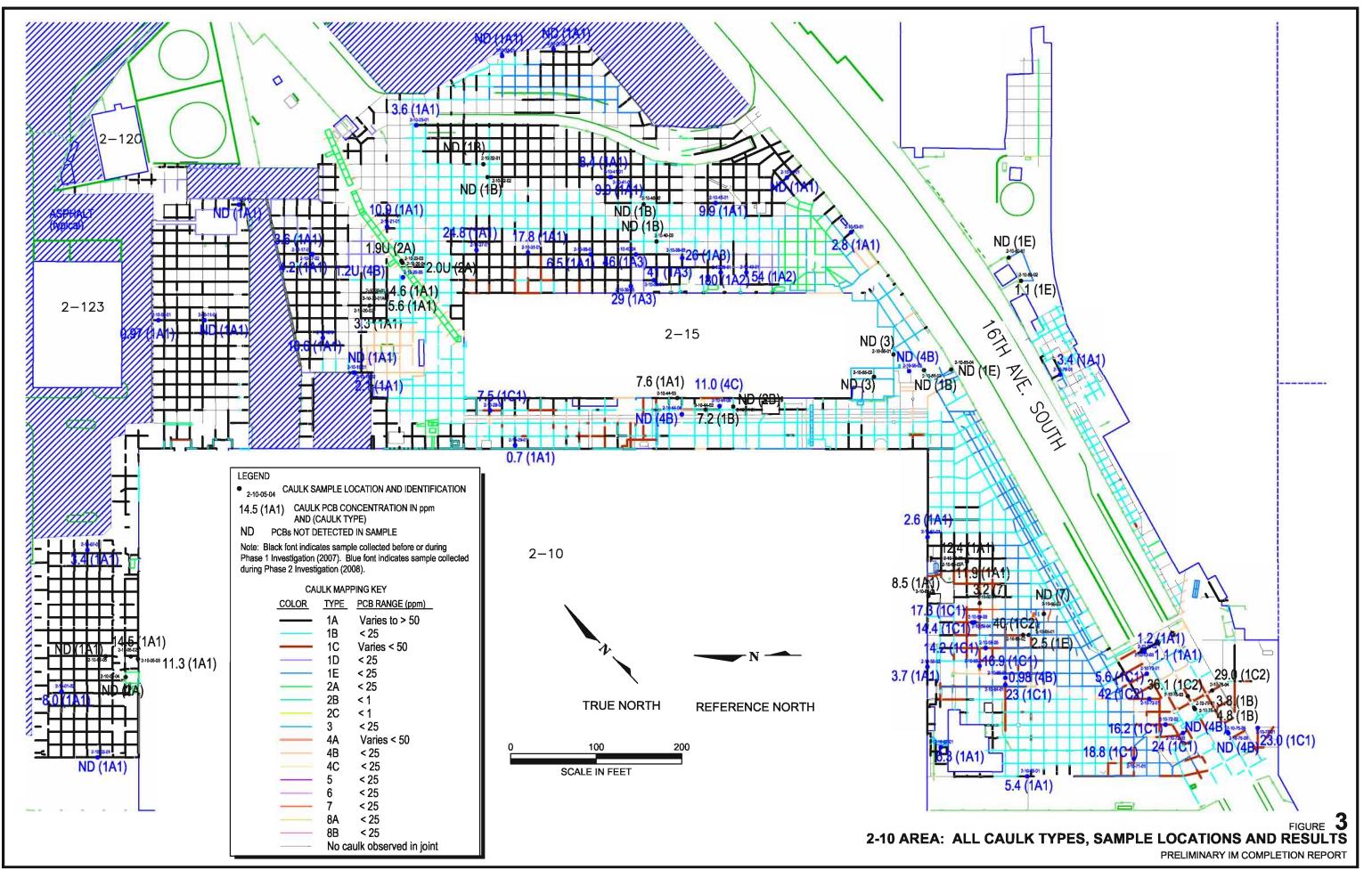


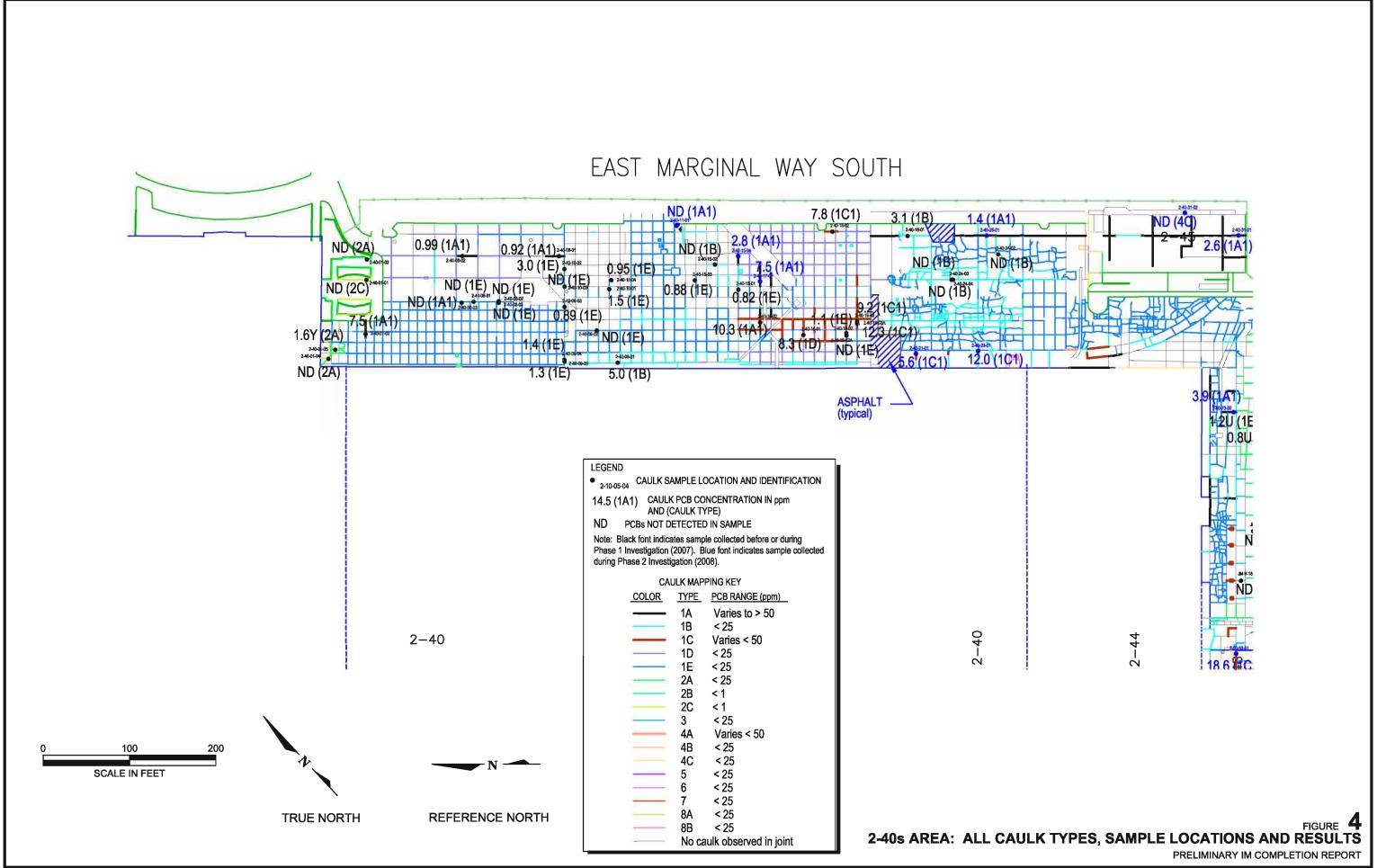


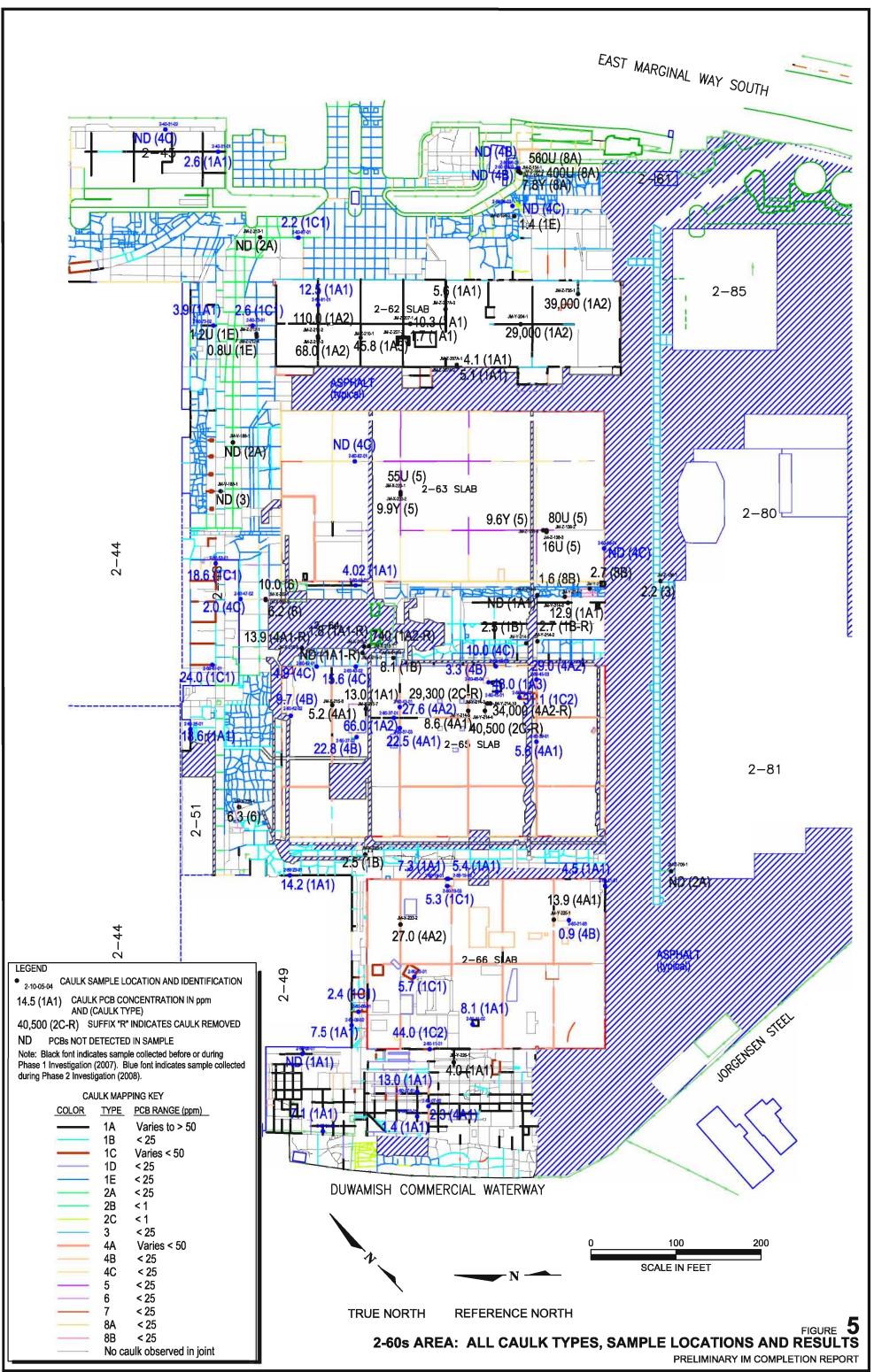
Interim Measure Work Plan Removal of PCB-Containing Caulk In Concrete Pavements Boeing Plant 2

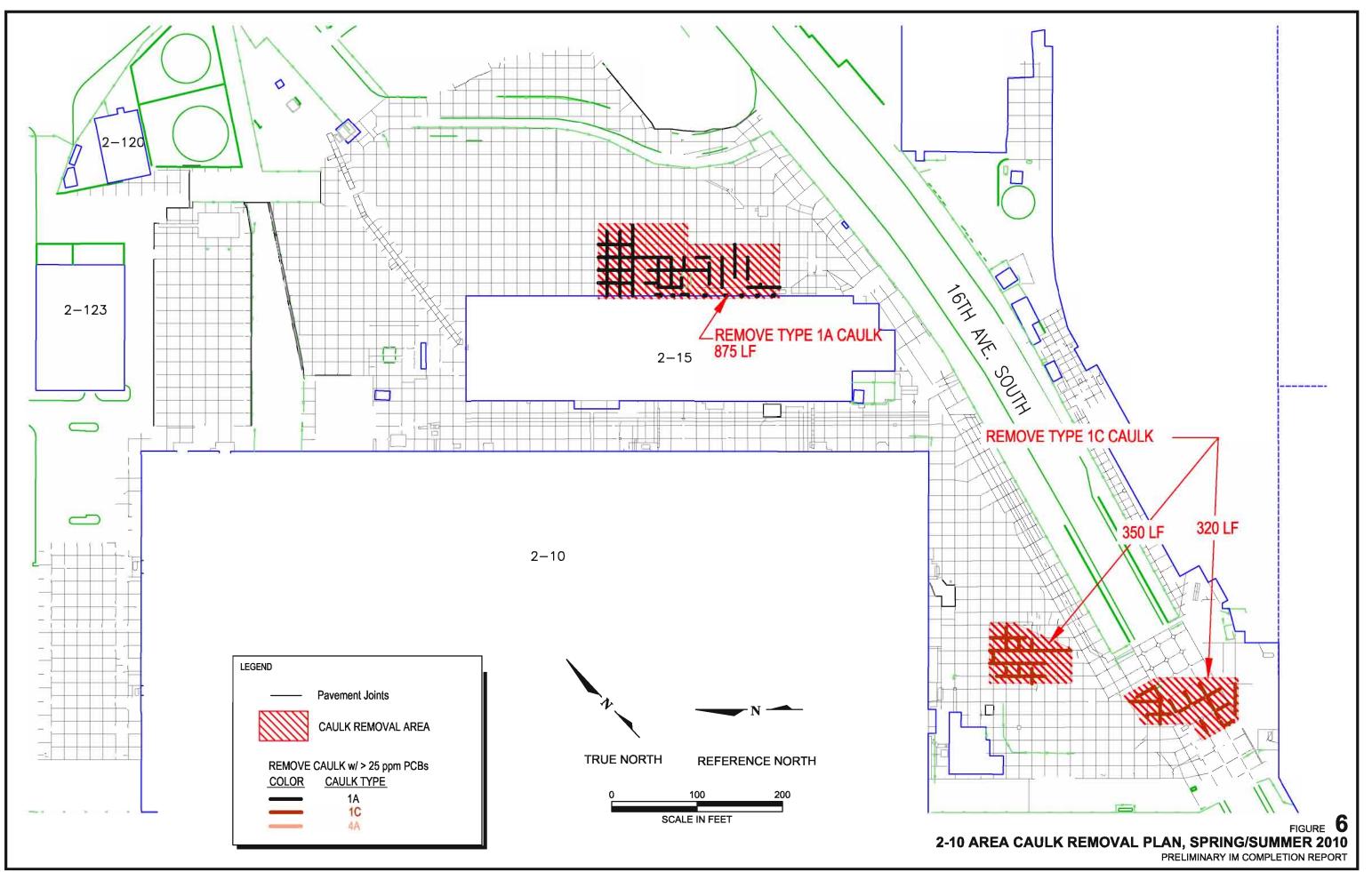
Figure 1 Vicinity Map

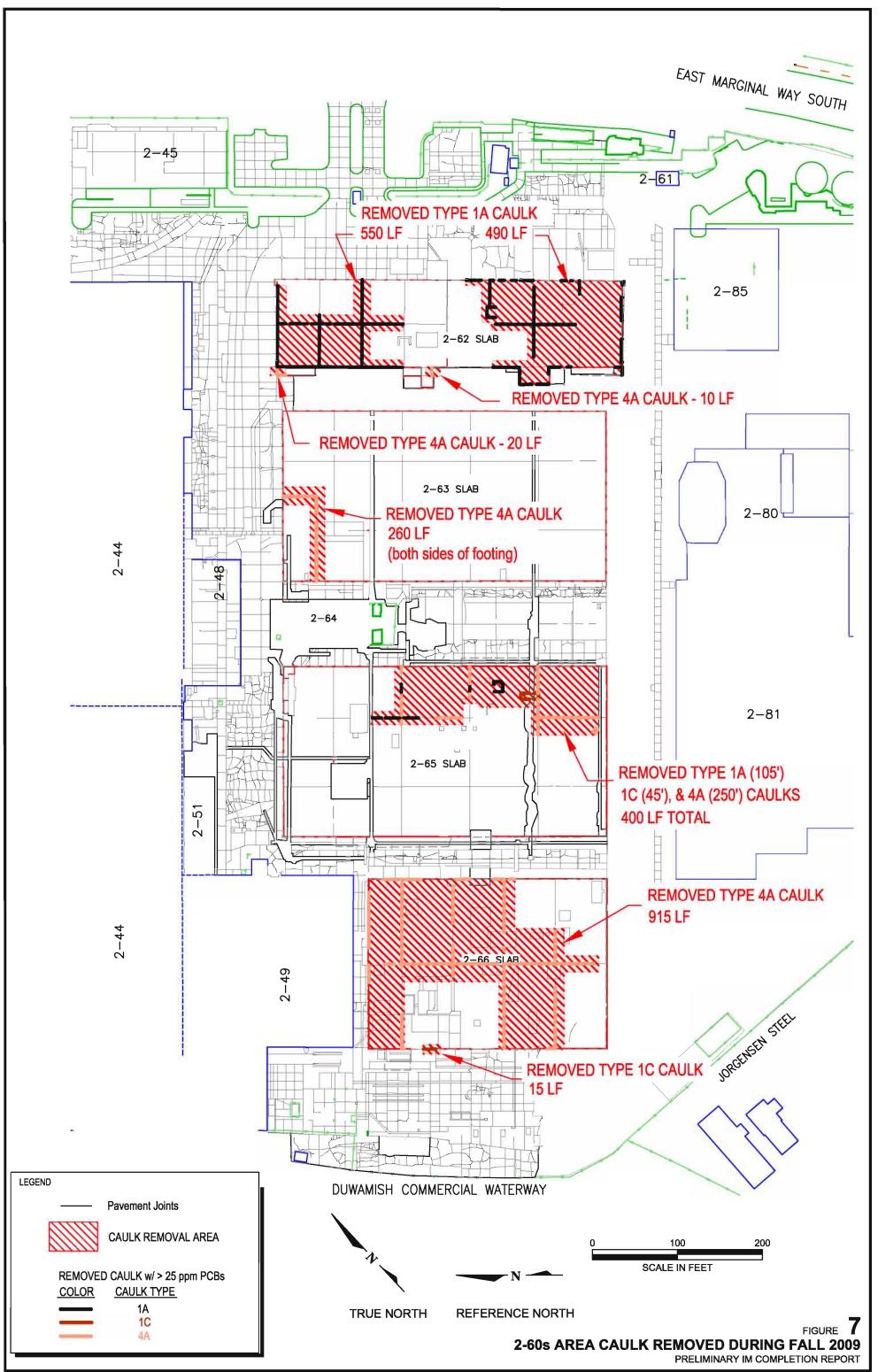


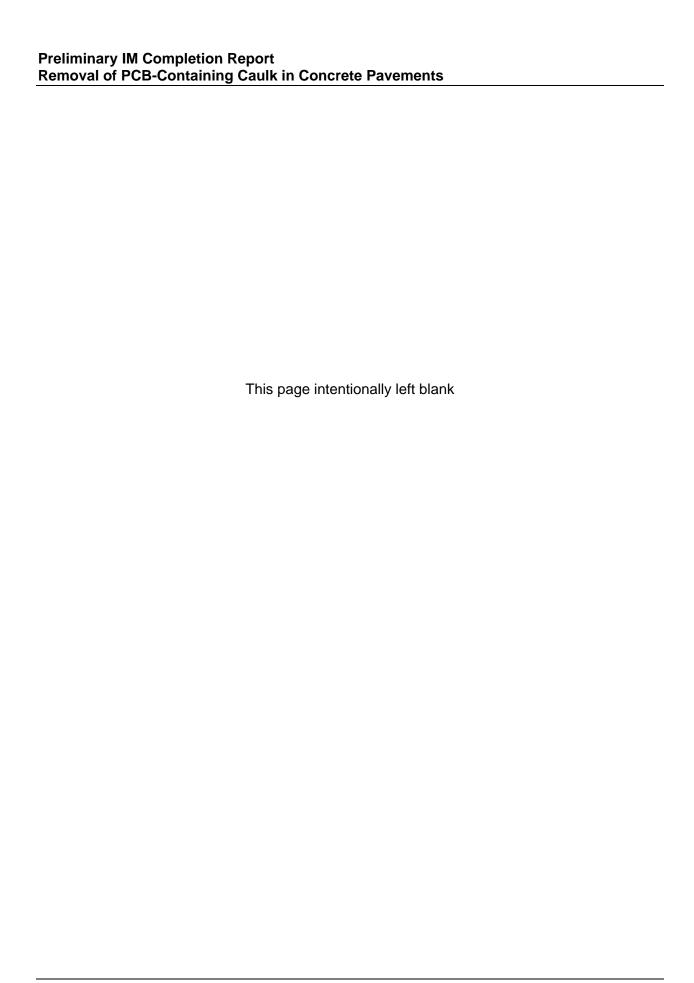




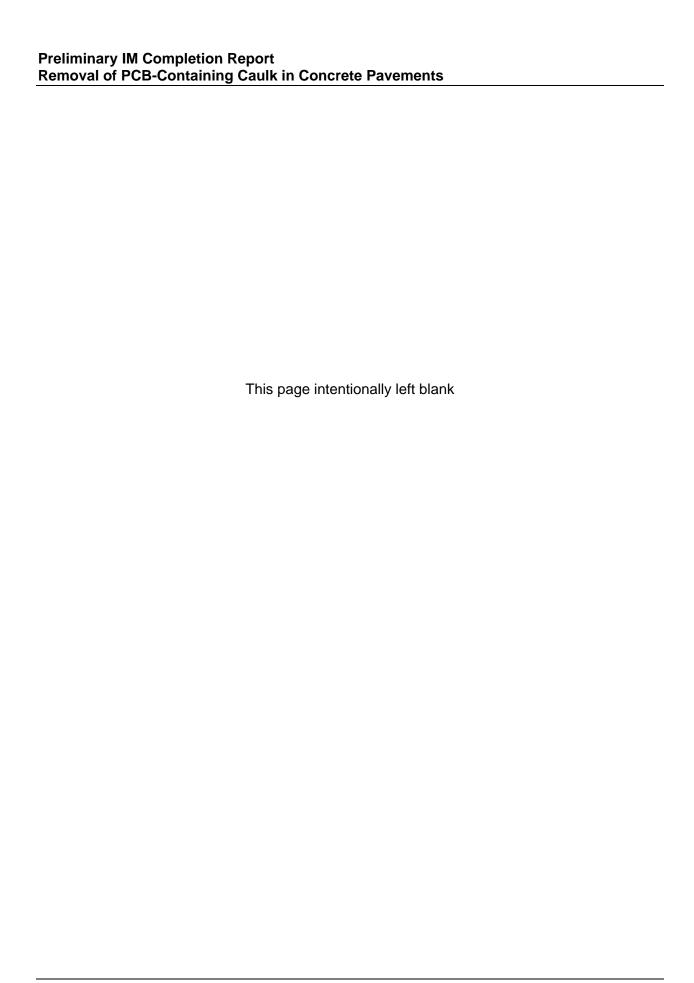








APPENDIX A REMOVAL PHOTOGRAPHS





Preparing caulk-concrete removal slot for CDF backfill placement



Preparing caulk-concrete removal slot for CDF backfill placement



Caulk-concrete removal slot prepared for CDF placement



Caulk-concrete removal slot prepared for CDF placement



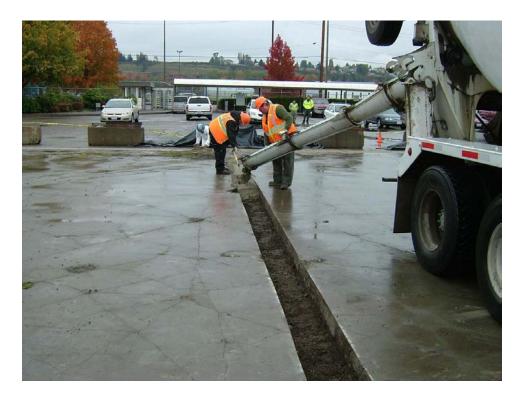
Using a pneumatic scabbler to remove adhered caulk from perimeter footing



Pneumatic scabbler used to removed adhered caulk from perimeter footing



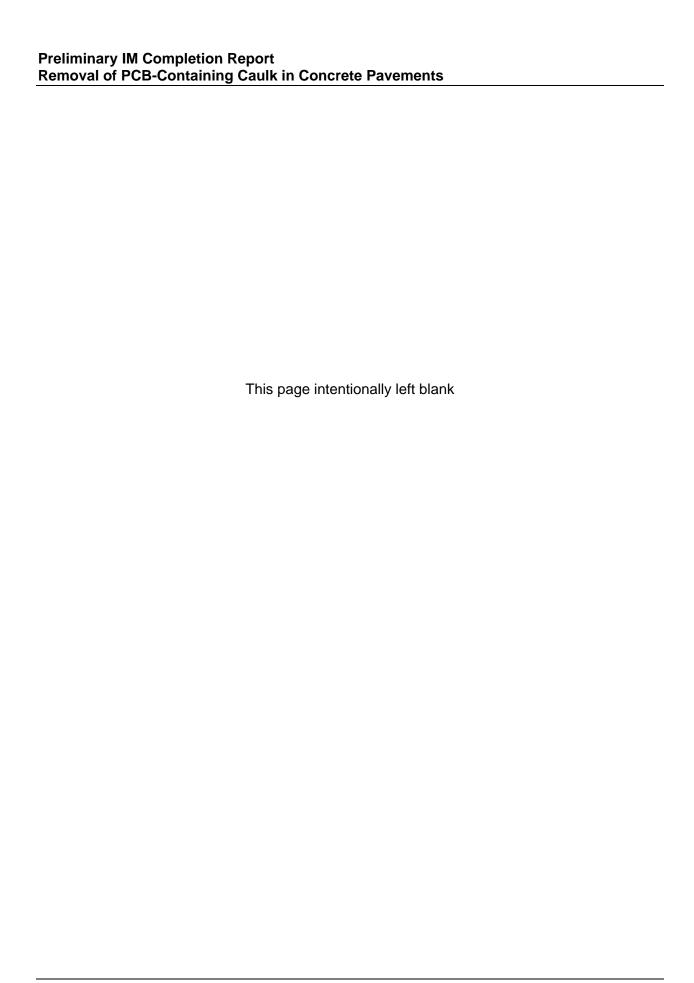
Placing CDF backfill in caulk-concrete removal slot



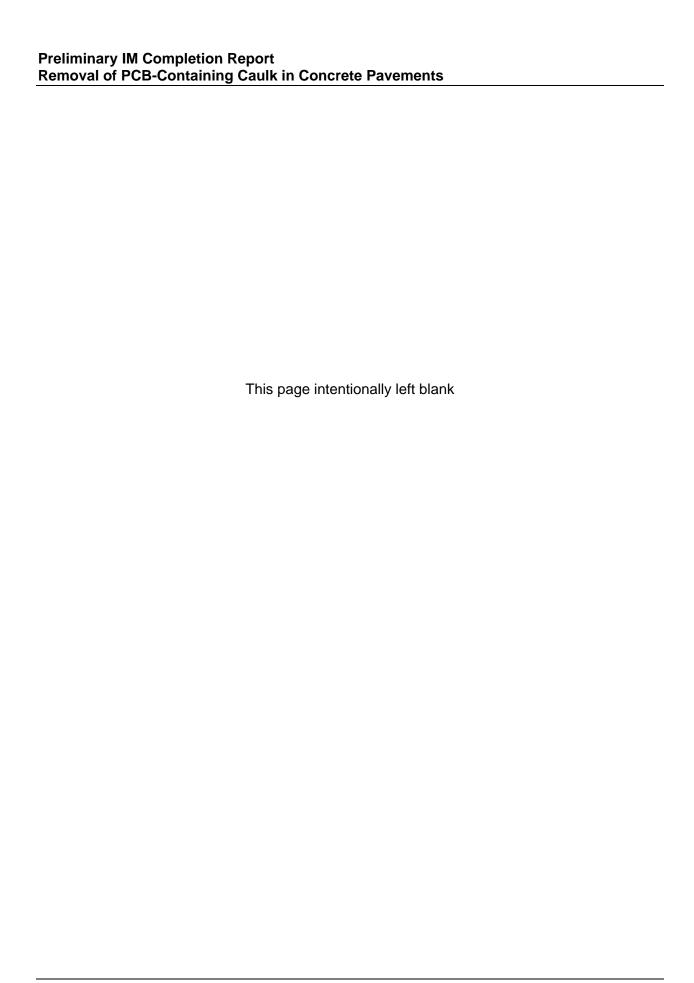
Placing CDF backfill in caulk-concrete removal slot



Pavement breaker used when joint or concrete configurations did not allow use of sawcutting machines



APPENDIX B DAILY QUALITY ASSURANCE FIELD SHEETS



Boeing Plant 2 Removal of Catalk Containing > 25 ppm PCBs

Date 10/20/09 Weather Cloudy, 19/m 550 F @ 1230
Start Time 0830 End Time 1430
Contractors Onsite Glacier, Grolder AOS (1300-1345)
Wisitors Breing: J. Parsons, J. Flaherty
Plant 2 Area 2 62 B/dg Specific Area Location west half north stem wall
Work Performed Paint Removal Sewcutting - Linear ft of Joint(s) Sturry/Water Controlled and Collected? None
Method used hand scabblers and scrapers to remove
Initial Caulk/Concrete Removal - Linear ft of Joints
Method
Remaining Cautk Removal
Sawcutting Washing
Scraping Grinding
Other - Describe
Barriers Required? - Describe
Siurry/Water and Solids controlled and collected? Method
New Caulk Installed (2-10 Area Only) - Linear ft
CDF Backfill (2-60s Area Only) - Linear ft / Cubic Yards
Daily Clean-up
Method Vacuum / brooms used to collect paint chips
placed in 55 get drum (7900871)
Run-off Controls
Catch basins within 25 ft blocked? Portable Booms
Filter Sock in Catch Basins Vacuums
Other Not required sen J. Parsons
Weather Issues - Describe None
Comments Glavier mobilized to site. Reviewed Galacier's HASP prior to
work: Glacier Set up work, exclusion and do con areas
Site Representative: APS began utility locate on 2-62 slab.

paint

Michael Jupa: - Golder Assoc

Boeing Plant 2 Removal of Caulk Containing > 25 ppm PCBs

Date 10/21/09 Weather Closey, 17, rain 550F 97 1300
Start Time 0730 End Time 1600
Contractors Onsite Gracier, Golder, ADS Locating
Visitors Boeing: J. Parsons
Plant 2 Area 2-62 Bldg Specific Area Location West and west end of such stem walls
Work Performed Paint Removal
Saveutting - Linear ft of Joint(s) 1851\$ (2545\$)
Slurry/Water Controlled and Collected?
Daint Removel Method used hand Scaloblers and Scrapers to remove pair
Initial Caulk/Concrete Removal - Linear ft of Joints
Method
Remaining Caulk Removal
Sawcutting Washing
Scraping Grinding
Other - Describe
Barriers Required? - Describe
Slurry/Water and Solids controlled and collected?
Method
New Caulk Installed (2-10 Area Only) - Linear ft
CDF Backfill (2-60s Area Only) - Linear ft / Cubic Yards
Daily Clean-up
Method Vacuum / brooms used to collect paint Chips
Run-off Controls
Catch basins within 25 ft blocked? Portable Booms
Filter Sock in Catch Basins Vacuums
Other not required per J. Parsons
Weather Issues - Describe
Comments Glacier continued removing paint from bidg storesterior
Stem words in areas where carlik with will be remared.
Site Representative: APS completed utility locates at the
Z-62, Z-63, 265 and Z-66 bidgs.

Michael Lupes - Golden

Date 10/22/09 Weather Cloudy, (a)m 55° f at 1230
Start Time 6730 End Time 1600
Contractors Onsite Glacier, Golder
Visitors Boeing: J. Flaherty
Plant 2 Area 2-62, 2-65 Specific Area Location 2-62 South Stem wall, South and
Work Performed Paint Removal Samuelling Linear ft of Joint(s) Sturry/Water Controlled and Collected? Method Walls 56.4 (8551), Floors 91 Sf
Initial Caulk/Concrete Removal - Linear ft of Joints
Paint Remodellethod wall: hand scabblers & scrapers: Floors walk behind scabble
Remaining Caulk Removal
Sawcutting Washing
Scraping Grinding
Other - Describe
Barriers Required? - Describe
·
Sturry/Water and Solids controlled and collected? Method
New Caulk Installed (2-10 Area Only) - Linear ft
CDF Backfill (2-60s Area Only) - Linear ft / Cubic Yards
Daily Clean-up
Method Varuum / brooms used to collect paint chibs
placed in 55 gal drum (Z900841)
Run-off Controls
Catch basins within 25 ft blocked? Portable Booms
Filter Sock in Catch Basins Vacuums
Other Not required per T. parsons
Weather Issues - Describe
Comments Gracier sen completed removal of paint along joints to be removed including Stem walls and Slabs. No paint on 2-63 or 2-66 slabs
Michael Lungh - Golder

Date	123/09 Weather rain
Start Time	0730 End Time 083 0
Contractors On	site ralación Golder
	one
Plant 2 Area	2-62 Specific Area Location
Work Performe	
	Sawcutting - Linear ft of Joint(s)
	Sturry/Water Controlled and Collected?
	Method
	Initial CaulidConcrete Removal - Linear ft of Joints
	Method
	Remaining Caulk Removal
	Sawcutting Washing
	Scraping Grinding
	Other - Describe
	Barriers Required? - Describe
	Slurry/Water and Solids controlled and collected?
	Method
П	New Caulk Installed (2-10 Area Only) - Linear ft
F	CDF Backfill (2-60s Area Only) - Linear ft / Cubic Yards
Ħ	Daily Clean-up
—	Method
Ru	n-off Controls
	Catch basins within 25 ft blocked? Portable Booms
	Filter Sock in Catch Basins Vacuums
Ħ	Other
Weather Issue	is - Describe No Site work Today due to rain
Comments	Glasier Not on site except to STEN GLANDMENT
•	and sypolies. Paint removal completed yesterday
City Description	
Site Represen	tative: Saw wring scheduled to begin Monday.
	44.

Date 10/26/89 Weather rgin
Start Time 0730 End Time 0830
Contractors Onsite Greacier, Pennhall, Grolder
Visitors Bacing: I. Parsons
Plant 2 Area 2-62 Specific Area Location
Work Performed
Sawcutting - Linear ft of Joint(s)
SturryWater Controlled and Collected?
Method
Initial Caulk/Concrete Removal - Linear ft of Joints
Method
Remaining Caulk Removal
Sawcutting Washing
Scraping Grinding
Other - Describe
Barriers Required? - Describe
Sturry/Water and Solids controlled and collected?
Method
New Caulk Installed (2-10 Area Only) - Linear ft
CDF Backfill (2-60s Area Only) - Linear ft / Cubic Yards
Daily Clean-up
Method
Run-off Controls
Catch tracins within 25 ft blocked? Portable Booms
Filter Sock in Catch Basins Vacuums
Other
Weather Issues - Describe NO work today due to steady rail
Comments Pennhall Saw cutting contractor inabilized to the
3, to Today, Reviewed HASP Drive to work
Site Representative: Michael Lumpkin
Mulan Lingto - Golder

Date 15/24/09 Weather Dartly Sunny, (a in 52°F @ 120°) Start Time 0730 End Time 1600 Contractors Onsite Greater Danhall, Grotter Vailess Boding: J. Flaherty, J. Parsons (Am) Plant 2 Area 2-62 Specific Area Location South half, and interior north Work Performed Savecutting - Linear ft of Joint(s) 989 Saurry/Water Controlled and Collected? Method Vacuum in To 55 gal draws Initial Cautil/Concrete Removal - Linear ft of Joints Non @ Method Remaining Cautil: Removal Sawcutting Washing Grinding Other - Describe Barriers Required? - Describe Sturry/Water and Solids controlled and collected? Method New Cauli: Installed (2-10 Area Only) - Linear ft / Cubic Yards Daily Clean-up
Contractors Onsite Glacier Pennhall Golder Visitions Beeing: J. Flaherty T. Parsons (Am) Plant 2 Area 2-62 Specific Area Location South half and in tenter worth Work Performed Sawcutting - Linear ft of Joint(s) 989 Sturry/Water Controlled and Collected? Yes Method Vacuum in To 55 gal Sams Initial Caulid/Concrete Removal - Linear ft of Joints None Method Remaining Caulik Removal Sawcutting Washing Grinding Other - Describe Barriers Required? - Describe Sturry/Water and Solids controlled and collected? Method New Caulik Installed (2-10 Area Only) - Linear ft / Cubic Yards
Plant 2 Area 2 - 6 2 Specific Area Location South half and intents worth
Work Performed Sawcutting - Linear ft of Joint(s) 989 Sturry/Water Controlled and Collected? Yes Method Vacoum in To 55 gal Sawcutting Initial Caulit/Concrete Removal - Linear ft of Joints Monic Method Remaining Caulit Removal Sawcutting Washing Grinding Other - Describe Barriers Required? - Describe Sturry/Water and Solids controlled and collected? Method New Caulit Installed (2-10 Area Only) - Linear ft CDF Backfill (2-50s Area Only) - Linear ft / Cubic Yards
Work Performed Sawcutting - Linear ft of Joint(s) 989 SturryWater Controlled and Collected? Yes Method Vacuum in To 55 gnl drums Initial Caulk/Concrete Removal - Linear ft of Joints None Method Remaining Caulk Removal Sawcutting Washing Grinding Other - Describe Barriers Required? - Describe SturryWater and Solids controlled and collected? Method New Caulk Installed (2-19 Area Only) - Linear ft CDF Backfill (2-60s Area Only) - Linear ft / Cubic Yards
Saurry/Water Controlled and Collected? Saurry/Water Controlled and Collected? Saurry/Water Controlled and Collected? Saurry/Water Controlled and Collected? Saurry/Water Removal - Linear ft of Joints Non C Method Remaining Caulik Removal Washing Grinding Grinding
Sturry/Water Controlled and Collected? YeS Method Vacuum in To 55 gal Crom5 Initial Cautic/Concrete Removal - Linear ft of Joints Non C Method Remaining Cautic Removal Washing Washing Sawcutting Grinding Grinding Other - Describe Barriers Required? - Describe Sturry/Water and Solids controlled and collected? Method New Cautic Installed (2-10 Area Only) - Linear ft Cubic Yards
Initial Caulic/Concrete Removal - Linear ft of Joints Non C Method Remaining Cauth Removal Sawcutting Washing Grinding Other - Describe Barriers Required? - Describe Sturry/Water and Solids controlled and collected? Method New Cauth Installed (2-10 Area Only) - Linear ft CDF Backfill (2-60s Area Only) - Linear ft / Cubic Yards
Initial Caulid Concrete Removal - Linear ft of Joints Non C Method Remaining Caulik Removal Washing Washing Grinding Sawcutting Grinding Grinding Other - Describe Barriers Required? - Describe Shurry Water and Solids controlled and collected? Method New Caulik Installed (2-10 Area Only) - Linear ft CDF Backfill (2-60s Area Only) - Linear ft / Cubic Yards
New Caulk Installed (2-10 Area Only) - Linear ft / Cubic Yards
Remaining Caulik Removal Sawcutting
Sawcutting Washing Scraping Grinding Other - Describe Barriers Required? - Describe Sturry/Water and Solids controlled and collected? Method New Caulk Installed (2-10 Area Only) - Linear ft CDF Backfill (2-60s Area Only) - Linear ft / Cubic Yards
Scraping Grinding Other - Describe Barriers Required? - Describe Shurry/Water and Solids controlled and collected? Method New Caulik Installed (2-10 Area Only) - Linear ft CDF Backfill (2-60s Area Only) - Linear ft / Cubic Yards
Other - Describe Barriers Required? - Describe Sturry/Water and Solids controlled and collected? Method New Caulit Installed (2-10 Area Only) - Linear ft CDF Backfill (2-60s Area Only) - Linear ft / Cubic Yards
Sturry/Water and Solids controlled and collected? Method New Caulk Installed (2-10 Area Only) - Linear ft CDF Backfill (2-60s Area Only) - Linear ft / Cubic Yards
Sturry/Water and Solids controlled and collected? Method New Caulk Installed (2-10 Area Only) - Linear ft CDF Backfill (2-60s Area Only) - Linear ft / Cubic Yards
Method New Caulk Installed (2-10 Area Only) - Linear ft CDF Backfill (2-60s Area Only) - Linear ft / Cubic Yards
New Caulk Installed (2-10 Area Only) - Linear ft CDF Backfill (2-60s Area Only) - Linear ft / Cubic Yards
CDF Backfill (2-60s Area Only) - Linear ft / Cubic Yards
CDF Backfill (2-60s Area Only) - Linear ft / Cubic Yards
Daily Clean-up
t _a nt
Method
Run-off Controls
Catch basins within 25 ft blocked? Portable Booms
Filter Sock in Catch Basins Vacuums
Other no catch basins against to work arous
Weather Issues - Describe None
Comments Two concrete saws, concrete slury drimed.
Slury drives labled and tracked.
Site Representative:
Michael Suph Golder
My Cerewic / Junger

Date 10-28-2009 Weather CLDY, 42° Am CLDY, 50° PM
Start Time 0730 End Time
Contractors Onsite GLACIER PENHALL, GOLDER
BOEING - FLAHERTY, PARSONS
Plant 2 Area 2-62 Specific Area Location REMOVAL - S. END + N. CENTRAL 2-62
Work Performed CDF - N. INTERIOR, SW PERIMETER
Sawcutting - Linear ft of Joint(s) 862 TOTAL FOR ~ 57/ LF. JTS
Sturry/Water Controlled and Collected? XES
Method VACUUM INTO 55 GAL DRUMS WHILE SAWCUTTING
Initial Caulk/Concrete Removal - Linear ft of Joints 651 LF
Method EXCAVATOR & LABORERS
Remaining Cautk Removal
Saweutting Washing
Scraping Grinding
Other - Describe REMOVE 2" SOIL AFTER CONCRETE/CAULE REMOVAL
Barriers Required? - Describe
Sturry/Water and Solids controlled and collected?
Method
New Caulk Installed (2-10 Area Only) - Linear ft
CDF Backfill (2-60s Area Only) - Linear ft / Cubic Yards 8 y D 3 / 2 4 4 L F
Daily Clean-up
Method PLACED PLASTIC & SANDBAGS OVER OPEN
Method PLACED PLASTIC & SANDBAGS OVER OPEN TRENCHES IN CASE OF RAIN. DECON
Run-off Controls
Catch basins within 25 ft blocked? Portable Booms
Filter Sock in Catch Basins Vacuums
Other No CBs W/IN 25' OF WORK AREAS. OPENSLOTS.
Weather Issues - Describe NONE -
Comments 2 SAWCUT MACHINES - SLURRY VACUUMED INTO DRYMS.
Site Representative: Scatt a. Madheer - GOLDER
one inchiesermants.

		Removal of Caulk Containing > 25 ppm PCBs \(\subseteq CATTERED \)	
Date	10-	-29-2009 Weather SHOWERS 43° AM LIGHT DRIZZLE, 47	10 PA
Start Time		0730 End Time 1600	
Contractor	rs Ons	site GLACIER	
	3	OEING - FLAHERTY, PARSONS	
Plant 2 Are	ea	2-62 Specific Area Location	
Work Perf	ormed		
	口,	Sawcutting - Linear ft of Joint(s) NONE TODAY	
		Sturry/Water Controlled and Collected?	
		Method	
	区	Initial Caulk/Concrete Removal - Linear ft of Joints 289 LF	
		Method EXCAVATOR & LABORERS	
		Remaining Caulk Removal	
		Sawcutting Washing	
		Scraping Grinding	
		Other - Describe REMOVE 2" SOIL AFTER CONCRETE/CAULK REMOVE	92
		Barriers Required? - Describe PLASTIC & SANDBAGS USED TO	
		KEEP RUN-OFF OUT OF SLOTS.	
		Siurry/Water and Solids controlled and collected?	
		Method	
		New Caulk Installed (2-10 Area Only) - Linear ft	
	X	CDF Backfill (2-60s Area Only) - Linear ft / Cubic Yards 8yb3/285 LF	
	X	Daily Clean-up	
•	, ,	Method DECON. PLASTIC & SANDBAGS OVER	
		OPEN SLOKS.	
	Run	n-off Controls	
		Catch basins within 25 ft blocked? Portable Booms	
		Filter Sock in Catch Basins	
	M	Other No CB's WIN 25'. USED PLASTIC & SANDBAGS @ OPEN SLOT	TS.
Weather	lssue	es-Describe RAIN LAST NIGHT. WATER PUNDLES ON SLAB. 2 SMALL	2
Commen	its _	Other No CB's WIN 25'. USED PLASTIC SANDOAGS @ OPEN SLOT es-Describe RAIN LAST NIGHT. WATER PUNDLES ON SLAB. 2 SMALL FLADLES IN SLOT ON W. PERIM, S END. WATER	
	_	VACUUMED INTO DRUM.	
Site Rep	resent	tative: Scott U. Withdex	

Date 10/30/09 Weather partly Cloudy 56°F AM/ 62°F PM
Start Time 0730 End Time 1600
Contractors Onsite Glaculer
Visitors Boeing: J. Elaherty (intermittently)
Plant 2 Area 2-62 Specific Area Location North end, South interior, Sw corner
Work Performed
Sawcutting - Linear ft of Joint(s) hone To cay
Silurry/Water Controlled and Collected?
Method
Initial Cautic/Concrete Removal - Linear ft of Joints 452 L.F.
Method excavator hand tools
Remaining Caulk Removal
Saweutting Washing
Scraping Grinding
Other - Describe remared 2"min. of Soil below slab after
Barriers Required? - Describe none Caulk/ Concrete remove
Sturry/Water and Solids controlled and collected?
Method
The state of the s
New Caulk Installed (2-10 Area Only) - Linear ft
CDF Backfill (2-60s Area Only) - Linear ft / Cubic Yards 553 L.F. 20 CY
Daily Clean-up
Method placed plastic sherring and sand bags over
open trenches, decon'ed work areas
Run-off Controls
I I Carro regins where 20 if the ckee? I I Portain become
Catch basins within 25 ft blocked? Portable Booms Filter Sock in Catch Basins Vacuums
Filter Sock in Catch Basins Vacuums
Titler Sock in Catch Basins Vacuums Other No CB'S within 25" of work areas
Filter Sock in Catch Basins Vacuums Other No CB'S within 25" of work areas Weather Issues - Describe None
Filter Sock in Catch Basins Vacuums Other No CB'S within 25" of work areas Weather Issues - Describe none Comments removed Caulk/concrete/Soil placed in dauble lined
Filter Sock in Catch Basins Vacuums Other No CB'S within 25" of work areas Weather Issues - Describe None

Boeing Plant 2 Removal of Caulk Containing > 25 ppm PCBs 420 FAM / 540 F PM mostly cloudy Date Start Time Glacier, Penhall Contractors Onsite Visitor Breing: J. Parsons Specific Area Location in Textor Plant 2 Area **Work Performed** Sameutting - Linear it of Joint(s) 1233 L.F. Saw Cut (2 641 L.F. JT) X Sturry/Water Controlled and Collected? Method Macumed directly into 55 gal doms while cutting Initial Caulk/Concrete Removal - Linear ft of Joints Method Remaining Caulk Removal Sawcutting Washing Grinding Scraping Other - Describe Barriers Required? - Describe Sturry/Water and Solids controlled and collected? washed Method New Caulk Installed (2-10 Area Only) - Linear ft CDF Backfill (2-60s Area Only) - Linear ft / Cubic Yards none **Daily Clean-up Run-off Controls** Catch basins within 25 ft blocked? Portable Booms Filter Sock in Catch Basins **Vacuums** Other No CB's Weather Issues - Describe Comments Saw cutting machines eausoment Site Representative:

Date 11-3-09 Weather partly clovely 45°F AM / 50° FPM
Start Time 0730 End Time 1600
Contractors Onsite Glacier Penhall
Visitors Breing: In Flaherty
Plant 2 Area 2-65, 2-63, 2-66 Specific Area Location 2-65 interior, 2-63 Anti-ord end. Work Performed 2-66 N. permitin wall
Work Performed 2-66 N. permiter wall
Sawcutting - Linear ft of Joint(s) 2-65 819 L.F. (460 L.F., 57) 2-63 221 L.F. (221 L.F. 57) Sturry/Water Controlled and Collected? VeS 2-66 15 L.F. (15 L.F.)
Method vacuumed directly into 55gal drums
Initial Caulid Concrete Removal - Linear ft of Joints None
Method
Remaining Caulk Removal
Saweutting Washing
Scraping Grinding
Other - Describe
Barriers Required? - Describe
Sturry/Water and Solids controlled and collected?
Method broomed and washed slab surface near joints
New Caulk Installed (2-10 Area Only) - Linear ft
CDF Backfill (2-60s Area Only) - Linear ft / Cubic Yards
Daily Clean-up
Method
Run-off Controls
Catch basins within 25 ft blocked? Portable Booms
Filter Sock in Catch Basins Vacuums
Other NO CBS within 25' of work areas
Weather Issues - Describe None
Comments Saw Cuiting complete. Decon'ed Saws before
compbied from site.
Site Representative: Machael Lunghi - Gol der Assoc,
7//

Removal of Calif Containing > 20 ppm PCBs
Date 11/4/09 Weather partly-mostly cloudy 40°FAm/63°F PM
Start Time 0736 End Time 1600
Contractors Onsite Glacker
Visitors Boeina: J. Flaherty
Plant 2 Area 2-66, 2-62 Specific Area Location Northern 2/3 2-66 Interior. SW 2-62
abeta i attention
Sawcutting - Linear ft of Joint(s) completed & on 11/3/09
Siurry/Water Controlled and Collected?
Method
Initial Cautic/Concrete Removal - Linear ft of Joints 551 L, F @ 2-66
Method excavator hand tools
Remaining Caulk Removal
Saweutting Washing
Scraping Grinding
Other-Describe remared Z"min, of soil below slabs after
Barriers Required? - Describe Castle / Concrete remund
Sturry/Water and Solids controlled and collected?
Method
New Caulk Installed (2-10 Area Only) - Linear ft
= Concrete.
Daily Clean-up CDF Backfill (2-60s Area Only) - Linear ft / Cubic Yards 551 L. F. © 2-66 113 L. F. a 2-62 664 L. F. Total 2004
Method No open trenches decon'ed work
areas
Run-off Controls
Catch basins within 25 ft blocked? Portable Booms
Filter Sock in Catch Basins Vacuums
Other No CBS within 25 of work areas
Weather Issues - Describe None
Comments _ Cank/concrete / Soil placed in double lined roll-offs,
Trunches hookfalled with concrete per Boeing.
Site Representative: Michael Augus - Golder Assoc,

Boeing Plant 2 Removal of Caulk Containing > 25 ppm PCBs Weather intermittent rain Am 50°F Am 63°F PM Date Glacier Contractors Onsite J. Flaherty Westons Bacino : interior points 2-65 5lab Plant 2 Area 2-65 Specific Area Location **Work Performed** Sawcutting - Linear ft of Joint(s) Complete Sturry/Water Controlled and Collected? Method 328 L.F. Initial CaulidConcrete Removal - Linear ft of Joints Method excavator Remaining Caulk Removal Sawcutting: Washing Grinding Scrapino Soil below slabs after Other - Describe _______ Barriers Required? - Describe remeval Sturry/Water and Solids controlled and collected? Method New Caulk Installed (2-19 Area Only) - Linear ft CDF Backfill (2-60s Area Only) - Linear ft / Cubic Yards Daily Clean-up Method plastic sheeting placed Run-off Controls Catch basins within 25 ft blocked? Portable Booms Filter Sock in Catch Basins **Vacuums** Weather Issues - Describe Comments concrole Soil placed in double likel roll-offs. Golder Assoc.

Removal of Catalk Containing > 25 ppm PCBs Date 11-6-09 Weather intermittent AM Showers 56° FAm 54° F P Start Time 0730 End Time 1600 Contractors Onsite Glacier Visitors Boeing: J. Flaherty Plant 2 Area 2-63 Specific Area Location interior Stem wall worthwest quarte Work Performed Sameutting - Linear ft of Joint(s) Complete	m
Contractors Onsite Gracier Visitors Boeing: J. Flaherty Plant 2 Area 2-63 Specific Area Location interior Stem wall worthwest quarte Work Performed	,,,
Contractors Onsite Glacier Visitors Boeing: J. Flaherty Plant 2 Area 2-63 Specific Area Location interior Stem wall worthwest quarte Work Performed	
Visitors Boeing: J. Flaherty Plant 2 Area 2-63 Specific Area Location interior stem wall worthwest quarte Work Performed	
Plant 2 Area 2-63 Specific Area Location interior stem wall worth west quarter Work Performed	
Work Performed	er-
Sawcutting - Linear ft of Joint(s) Complete	
Slurry/Water Controlled and Collected?	
Method	
Initial Caulk/Concrete Removal - Linear ft of Joints ZZO L. F.	
Method extravator, hand tools	
Remaining Caulk Removal	
Saweutting Washing	
Scraping Grinding	
Other-Describe removed 2"min. of Soil below Slabs after	
Barriers Required? - Describe none remaining Coulk/concre	ele
Sturry/Water and Solids controlled and collected?	
#lethod	
New Caulk Installed (2-10 Area Only) - Linear ft	
CDF Backfill (2-60s Area Only) - Linear ft / Cubic Yards 224 L. F. / 8 cy concrete	
Daily Clean-up	
Method de con'ed work areas, no open trench	
Run-off Controls	
Catch basins within 25 ft blocked? Portable Booms	
Filter Sock in Catch Basins Vacuums	
Other No CBs within 25' a week areas	
Weather Issues - Describe Concrete was pared immediately after concrete/est cart	K
Comments removal to minimize run-off into orenehes	
Removed Caulk/ concrete / Sort was placed in double-lined roll-offs	
Site Representative: Michael Linghi - Ger der ASSOC.	
Removed Caulk/ concrete / Soil was placed in double-lined roll-offs	K

Boeing Plant 2 Removal of Caulk Containing > 25 ppm PCBs 46° F AM / 520 F OM Weather Cloudy AM Showers Date Start Time Contractors Onsite Specific Area Location South 1/3 2 66; Machine fundation joints Plant 2 Area 2-66, 2-65, 2-63, 2-62 2-65; north edge 2-63, scartered perimoter Work Performed Concrete Breaker perimeter weeks 2-66 219 L.F. (219 L.F. JT); 2-63 Sturry/Water Controlled and Collected? Initial Caulle Concrete Removal - Linear ft of Joints 2-66 295L, F. ; 2-65 15 L.F. Method oxcavatur hand tools Remaining Caulk Removal Sawcutting Washing Scraping/Scabbling Grinding Other - Describe removed 2 min, below slabs after Coulk/concrete Barriers Required? - Describe Sturry/Water and Solids controlled and collected? Method New Caulk Installed (2-10 Area Only) - Linear ft CDF Backfill (2-60s Area Only) - Linear ft / Cubic Yards none Daily Clean-up Method Olastic sheeting and Sand hugs place de conted Run-off Controls Catch basins within 25 ft blocked? Portable Booms Filter Sock in Catch Basins Vacuums Weather Issues - Describe Comments excavator mantel concrete breaker to inaccessible on saw cutter break concrete in areas Caulk/concrete/9011 remember and placed in Site Representative: double-lined roll-offs. Michael Lept - Geolder Assoc.

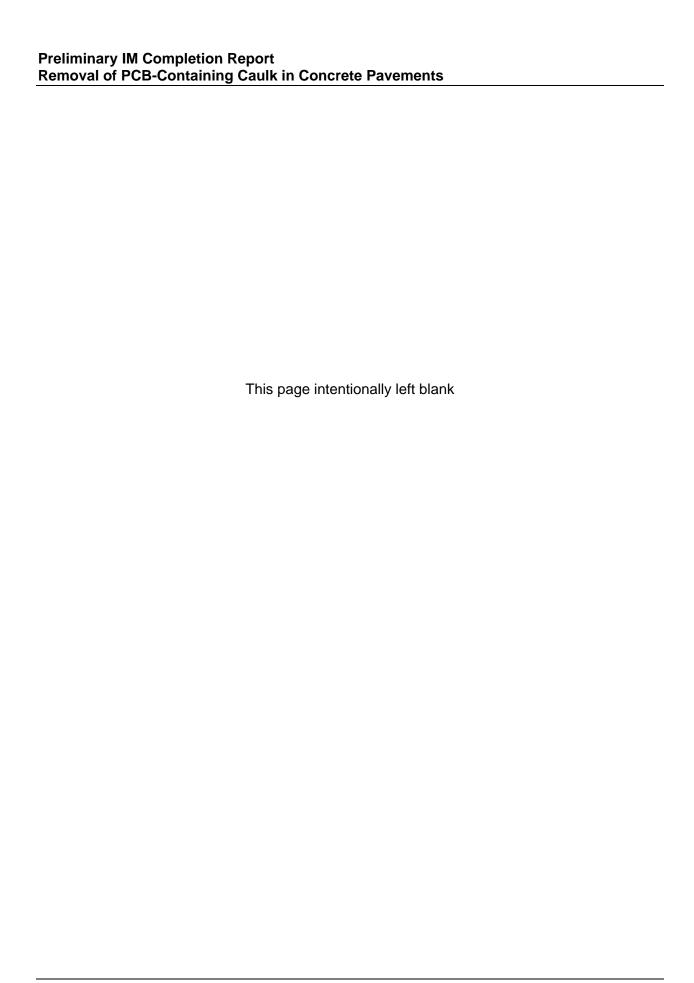
Boeing Plant 2 Removal of Caulk Containing > 25 ppm PCBs Am Showers End Time 1600 Start Time Contractors Onsite Glacier Boeing: J. Parsons Plant 2 Area 2 -66, 2-65, 2-67, 2-62 Specific Area Location 2-66 N. permiter; 2-66 mechine fundation ITS. 2-63 N. perimeten; Syperm 2-62 5. perimeter Work Performed Concrete Breaker Saveutting - Linear ft of Joint(s) 2-62 23 LF (23 LF) Sturry/Water Controlled and Collected? Initial Cault/Concrete Removal - Linear ft of Joints 2-66 23LF; 2-65 94L.F. Method excustor, hand tools 2-63 23LF; 2-62 79L.F. Remaining Caulk Removal Total caulk = 219 L.E. Sawcutting Washing Scraping / Scabbling Grinding Other - Describe removed 2"min. Soil from below slabs after

Removed - Describe Carlk / Concrete removed Starry/Water and Solids controlled and collected? Method New Caulk Installed (2-10 Area Only) - Linear ft CDF Backfill (2-60s Area Only) - Linear ft / Cubic Yards none Today Daily Clean-up Method plastic sheeting placed and sand hage placed over open trenches, deconted work areas **Run-off Controls** Catch basins within 25 ft blocked? Portable Booms Filter Sock in Catch Basins **Vacuums** No CBS within 25° of work areas Weather Issues - Describe none Glacker irset an excavator manted concrete breaker To break concrote glong the 2-62 S. perimoter wall Site Representative: IN 9 (USSIBLE to Saw cutter, Caulk/conercte/sort removed and placed in double-lined roll-offs, Michael Leuphr - Ged der Assoc,

Date 11-11-09 Weather Clear 45°F Am/ 52°F PM
Start Time 0730 Erod Time 1600
Contractors Onsite Glacier
Boeing: none
Plant 2 Area 2-66, 2-63, 2-63, 262 Specific Area Location 266 Sorth interior and perimeter walls
Work Performed 2-65 interior mechine Sundarion ITS 2-63 worth edge; 2-62 scartered orand
Sawcutting - Linear ft of Joint(s)
Slurry/Water Controlled and Collected?
Method
Initial Cauth/Concrete Removal - Linear ft of Joints 2-62 23LF South personater
Method execurator/hand tools other areas previously removed
Remaining Caulk Removal
Sawcutting Washing
Scraping / Scabbling Grinding
Other - Describe removed 2"min, of Si, I from below stabs after
Barriers Required? - Describe Caulk/Concrete removed
Sturry/Water and Solids controlled and collected?
Method
New Caulk Installed (2-10 Area Only) - Linear ft
CDF Backfill (2-60s Area Only) - Linear ft / Cubic Yards 2-66 3/8 LF; 2-65 14 L.F.
Daily Clean-up 2-63 232F; 2-62 794.F.
Method de con'ed work areas Total 561 L.F/28cy
Run-off Controls
Catch basins within 25 ft blocked? Portable Booms
Filter Sock in Catch Basins Vacuums
Other
Weather Issues - Describe
Comments Cark/conered/Soil removed and placed in darble-lined
roll-off : paint chips/soil in drum 2900 871 disposed
Site Representative: of in voll off 5411 (2900911).
Machael Lunch - Gelder Assoc.

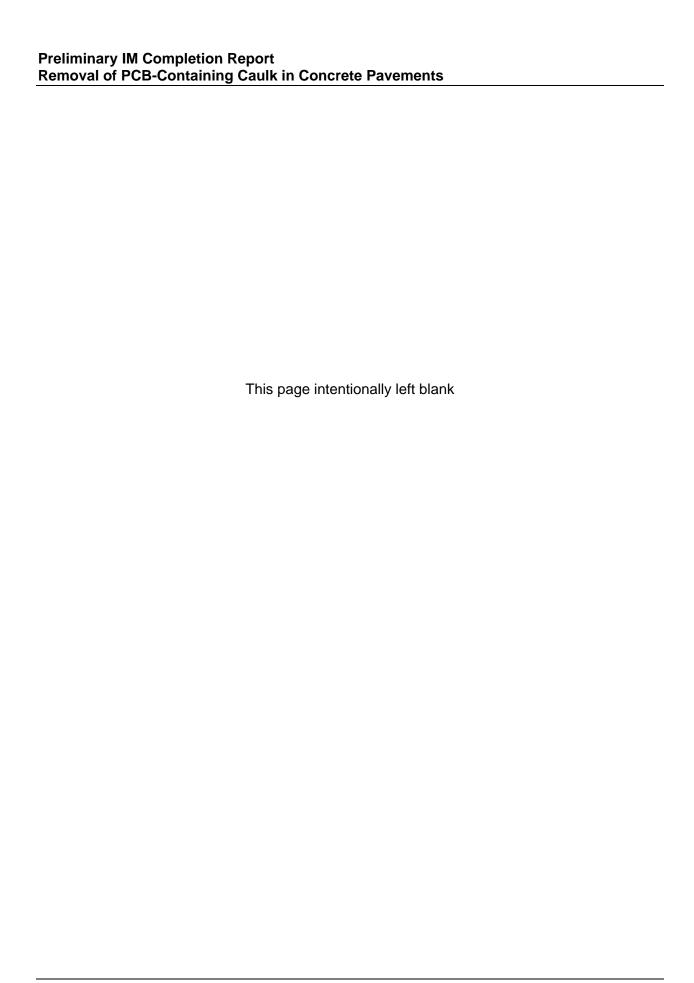
Hemoval of Cauk Containing > 20 ppm PCES
Date 11-12-09 Weather Clear 46°F Am / 60°E PM
Start Time 0730 End Time 1530
Contractors Onsite Glacier
Boeing: 1: Parsons (intermittently)
Work Performed Specific Area Location General Site Clean-up 2-66, 2-63, 2-63, 2-62
Sawcutting - Linear ft of Joint(s)
Sturry/Water Controlled and Collected?
Method
Initial Cault/Concrete Removal - Linear ft of Joints
Method
Remaining Caulk Removal
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Scraping Grinding
Other - Describe
Barriers Required? - Describe
Sturry/Water and Solids controlled and collected?
Method
New Caulk Installed (2-10 Area Only) - Linear ft
CDF Backfill (2-60s Area Only) - Linear ft / Cubic Yards None to Ley
Daily Clean-up
Method cleaned and de conted work areas
began equipment do con! do con water
Run-off Controls placed in 55 gal, drum
Catch basins within 25 ft blocked? Portable Booms
Filter Sock in Catch Basins Vacuums
Other none required.
Weather Issues - Describe
Comments Glacier used hand tools to remove loose coulk
Chips/ pieces from the Slab surface at the western
Site Representative: Since at 2-62 slab
i'le walking the could removal areas to verity that the call had
een removed from the planned areas Galder identified three area
een removed from the planned areas, holder identified three area where the caulk had not been sement completed, will remove tomorro
Michael Lupli - Golder Assoc.
Michael Louber - Oca Con Marie

Date 11-13-09 Weather Cloudy Am Showers 460F Am
Start Time 0730 End Time 1100
Contractors Onsite Glacier
Vicitore Boeing: None
Plant 2 Area 2-66 Specific Area Location 2-66 interior east middle orea Work Performed
Work Performed Concrete Breaking
Samuelling Linear ft of Joint(s) 56 L.F. (56 LF JT)
Sturry/Water Controlled and Collected?
Method
Initial Caulk/Concrete Removal - Linear ft of Joints 56 L F
Method Remaining Caulk Removal
Saweutting Washing
Scraping Grinding
Other - Describe some A 2" min at Soil from below State atten
Other - Describe remark 2" min. at Soil from below slow after Barriers Required? - Describe calk/concrete remark
Sturry/Water and Solids controlled and collected?
Method
New Caulk Installed (2-10 Area Only) - Linear ft
CDF Backfill (2-60s Area Only) - Linear ft / Cubic Yards 561F 3 Cy Concrete
Daily Clean-up
Method Clean and decon'ed work areas
completed equipment de con i de con water
Run-off Controls placed in 55 gal drum
Catch basins within 25 ft blocked? Portable Booms
Filter Sock in Catch Basins Vacuums
Other No CBs within 25 at work areas
Weather Issues - Describe None
Comments (aulk/concrete/Soil removed and placed in devale-
lined roll-04. Glacier completed planned
Site Representative: <u>Carlk removal</u> , <u>decan'</u> of equipment and
demobilized from site
Maria de la Calla Area



APPENDIX C

FIELD NOTES



	DATE	10/20/04	10/87	10/23	t2/01	:									,		
CONTENTS	REFERENCE	sens Log 262	2-66	2-65	Daily Totals												
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ALL-WEATHER LEVEL BOOK

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This book is printed on "Rite in the Rain" All-Weather Writing Paper - A unique paper created to shed water and enhance the written image. It is widely used throughout the world for recording critical field data in all kinds of weather. For best results, use a pencil or an all-weather pen.

Specifications for this book:

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